Pulse
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CHILISIN ELECTRONICS CORP.

Total Solution Provider for Power, EMI and RF.

Inductors
SMD Components

Multilayer Power Inductors

The BKPx Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

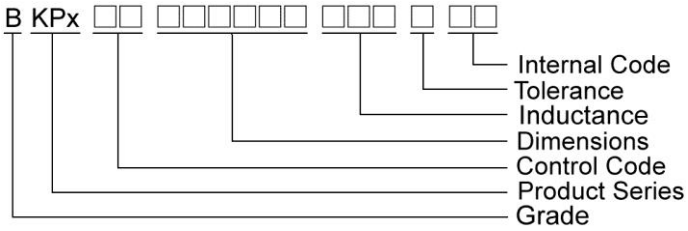
Features

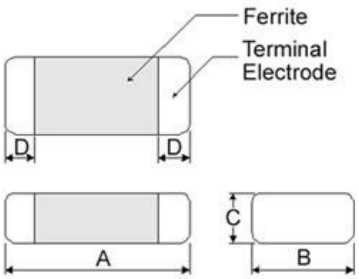
- RoHS, Halogen Free and REACH Compliance
- Small size
- Low profile
- High current
- Magnetically shielded configuration allowing for high density mounting

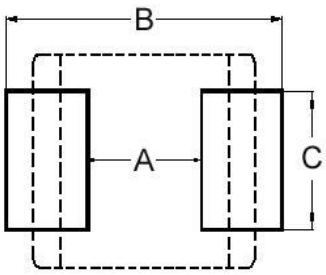
Applications

- DC-DC converters
- Power modules
- Cellular phones
- DSC, PND, DVD
- Wireless card and other electronic devices

Product Identification







Dimensions in mm

TYPE	A	B	C	D
1608FZ	1.6±0.15	0.8±0.15	0.6±0.15	0.3±0.2
1608DZ	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
201210	2.0±0.20	1.25±0.20	1.0 Max	0.5±0.3
201610	2.0±0.20	1.6±0.20	1.0 Max	0.5±0.3
252010	2.5±0.20	2.0±0.20	1.0 Max	0.6±0.2
252012	2.5±0.20	2.0±0.20	1.2 Max	0.6±0.2

Dimensions in mm

TYPE	A	B	C
1608FZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
1608DZ	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201210	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4
201610	0.8 ~ 1.2	2.1 ~ 2.7	1.6 ~ 2.0
252010	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6
252012	1.3 ~ 1.9	2.7 ~ 3.5	2.0 ~ 2.6

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Rated current (mA) Max
BKPA002012101R0☐00	1.0	20, 30	1	0.18	1100
BKPA002012101R5☐00	1.5	20, 30	1	0.19	1000
BKPA002012102R2☐00	2.2	20, 30	1	0.22	900
BKPA002012103R3☐00	3.3	20, 30	1	0.25	700
BKPA002012104R7☐00	4.7	20, 30	1	0.35	600

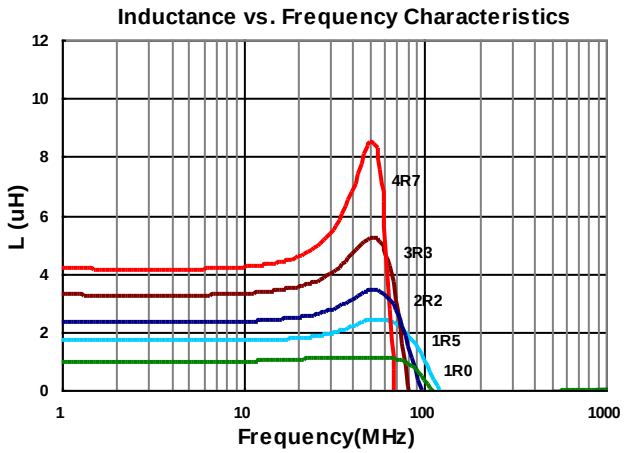
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

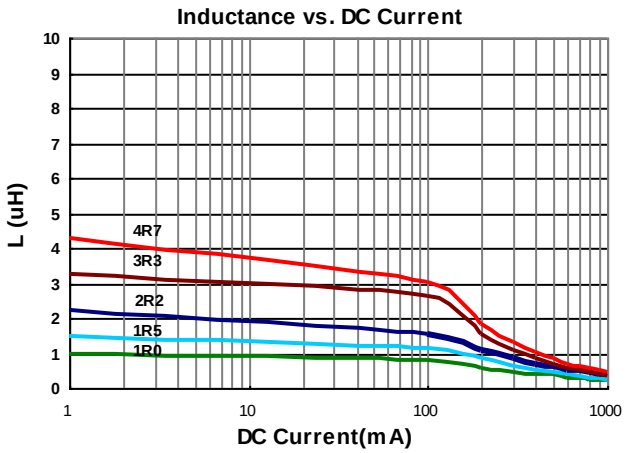
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Rated Current for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 1MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPA002520101R0☐00	1.0	20, 30	1	0.11	1200
BKPA002520101R5☐00	1.5	20, 30	1	0.13	1100
BKPA002520102R2☐00	2.2	20, 30	1	0.15	1000
BKPA002520103R3☐00	3.3	20, 30	1	0.18	1000
BKPA002520104R7☐00	4.7	20, 30	1	0.25	900

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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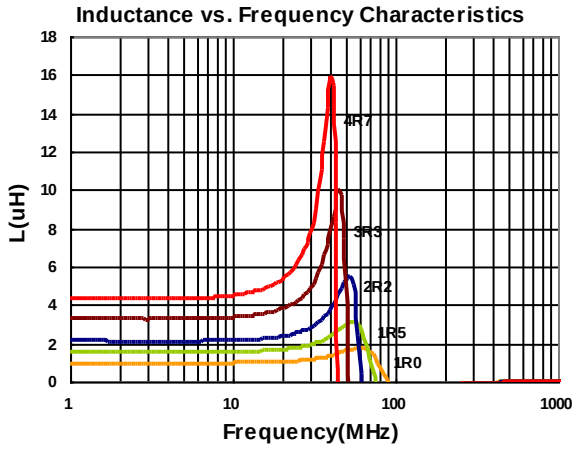

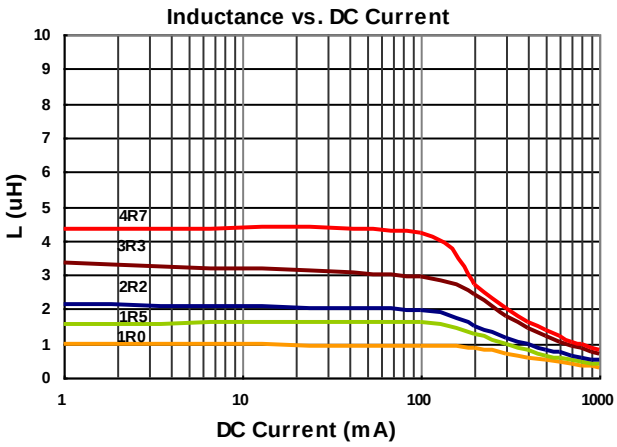

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BKPB001608DZR47☐A2	0.47	20, 30	3	0.15	400	1100
BKPB001608DZ1R0☐A2	1.0	20, 30	3	0.20	200	950
BKPB001608DZ2R2☐A2	2.2	20, 30	3	0.30	150	750
BKPB001608DZ4R7☐A6	4.7	20	3	0.44±25%	80	800

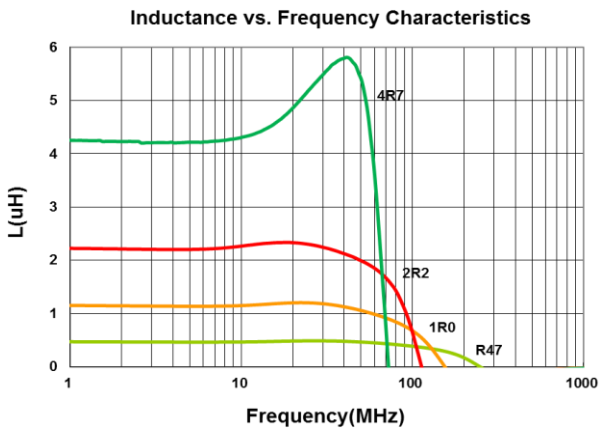
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

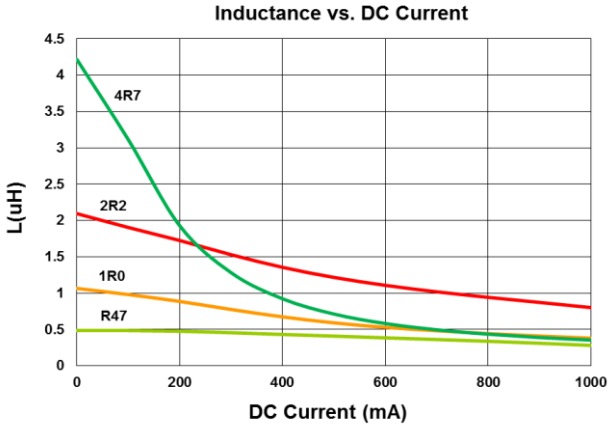
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00201210R47☐A2	0.47	20, 30	3	0.09	1100	1300
BKPB002012101R0☐A2	1.0	20, 30	3	0.12	650	1200
BKPB002012101R5☐A2	1.5	20, 30	3	0.15	450	1100
BKPB002012102R2☐A2	2.2	20, 30	3	0.19	400	1100
BKPB002012102R7☐A2	2.7	20, 30	3	0.21	300	1000
BKPB002012103R3☐A2	3.3	20, 30	3	0.24	300	800
BKPB002012104R7☐A2	4.7	20, 30	3	0.26	200	700

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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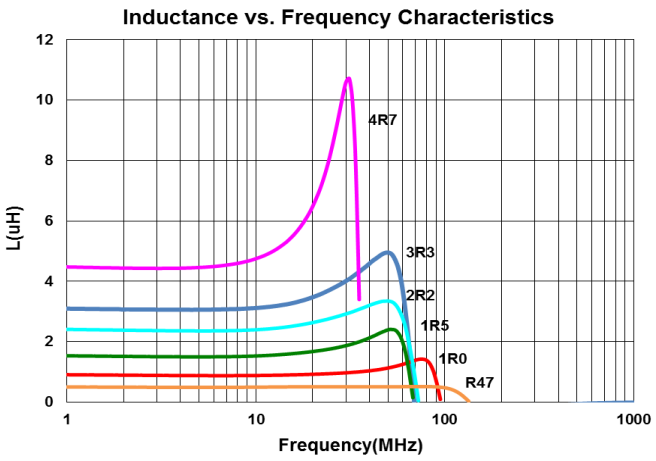
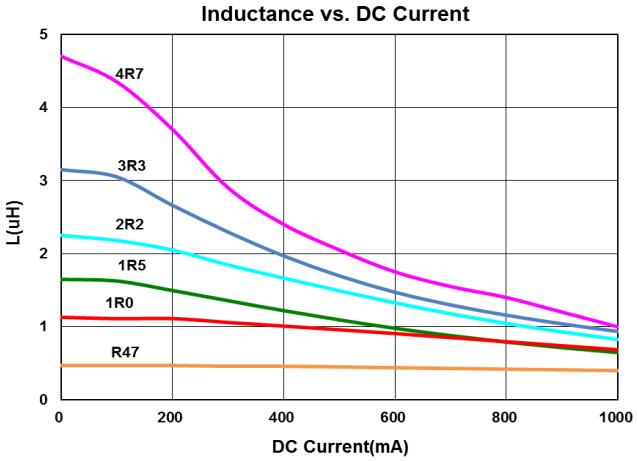
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00201610R47☐A2	0.47	20, 30	3	0.06±30%	1200	1600
BKPB002016101R0☐A2	1.0	20, 30	3	0.09±30%	850	1300
BKPB002016102R2☐A2	2.2	20, 30	3	0.13±30%	400	1000
BKPB002016103R3☐A2	3.3	20, 30	3	0.17±30%	350	850
BKPB002016104R7☐A2	4.7	20, 30	3	0.21±30%	200	800
BKPB00201610R47☐A6	0.47	20, 30	3	0.06±25%	1200	1600
BKPB002016101R0☐A6	1.0	20, 30	3	0.085±25%	850	1300
BKPB002016101R5☐A6	1.5	20, 30	3	0.11±25%	600	1200
BKPB002016102R2☐A6	2.2	20, 30	3	0.11±25%	400	1200
BKPB002016103R3☐A6	3.3	20, 30	3	0.12±25%	350	850
BKPB002016104R7☐A6	4.7	20, 30	3	0.14±25%	200	1100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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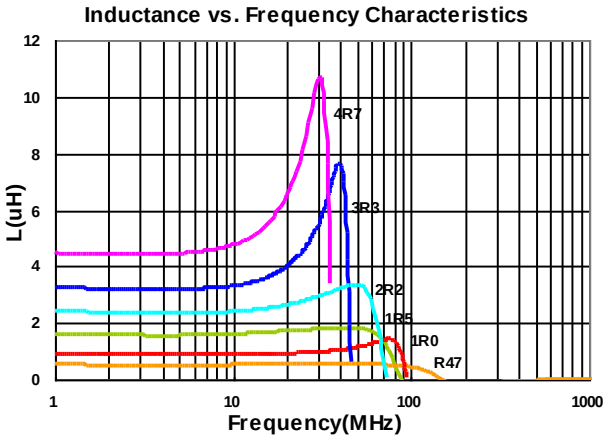

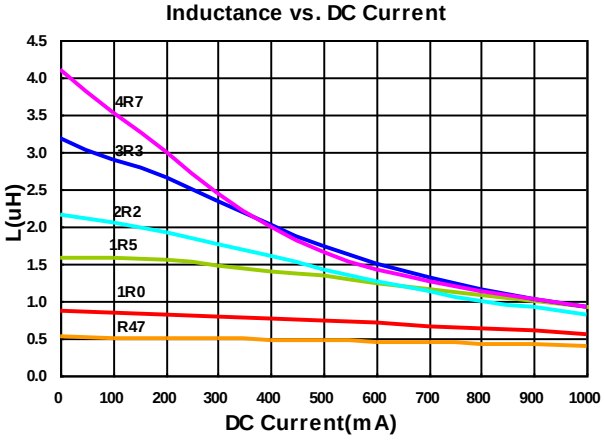

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BKPB00252010R47☐A2	0.47	20, 30	3	0.04±30%	1500	1800
BKPB002520101R0☐A2	1.0	20, 30	3	0.06±30%	900	1500
BKPB002520101R5☐A2	1.5	20, 30	3	0.07±30%	800	1400
BKPB002520102R2☐A2	2.2	20, 30	3	0.10±30%	500	1200
BKPB002520103R3☐A2	3.3	20, 30	3	0.12±30%	400	1100
BKPB002520104R7☐A2	4.7	20, 30	3	0.14±30%	300	1000
BKPB00252010R47☐A6	0.47	20, 30	3	0.04±25%	1500	1800
BKPB002520101R0☐A6	1.0	20, 30	3	0.055±25%	900	1600
BKPB002520102R2☐A6	2.2	20, 30	3	0.08±25%	500	1300
BKPB002520103R3☐A6	3.3	20, 30	3	0.10±25%	400	1200
BKPB002520104R7☐A6	4.7	20, 30	3	0.11±25%	300	1100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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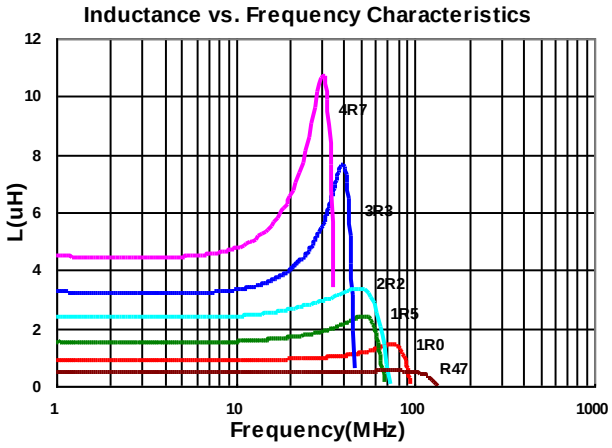
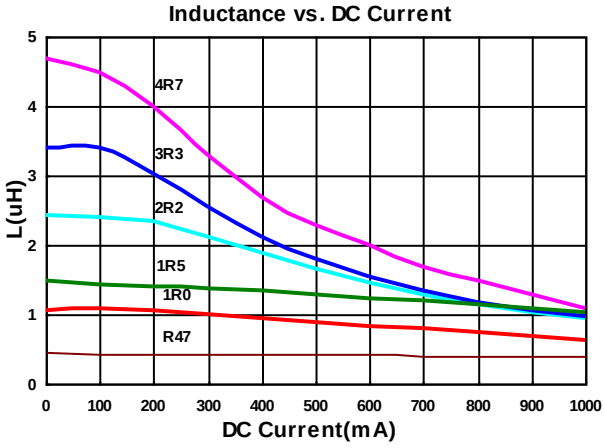
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPB00252012R47☐A2	0.47	20, 30	3	0.04	1500	1800
BKPB002520121R0☐A2	1.0	20, 30	3	0.05	950	1600
BKPB002520121R5☐A2	1.5	20, 30	3	0.07	900	1400
BKPB002520122R2☐A2	2.2	20, 30	3	0.10	700	1200
BKPB002520123R3☐A2	3.3	20, 30	3	0.12	500	1100
BKPB002520124R7☐A2	4.7	20, 30	3	0.14	350	1000

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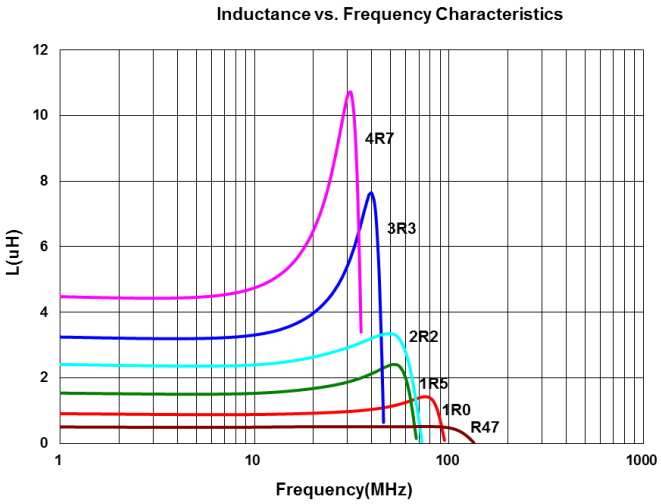
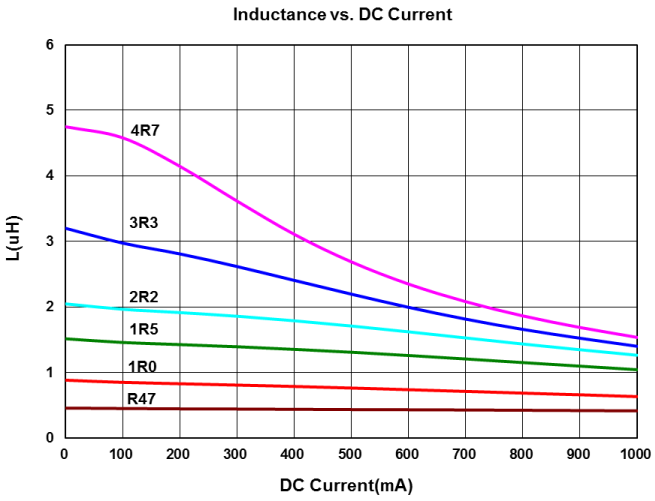
Test Instruments：HP4287A Inductance / Material Analyzer





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BKPE001608FZ2R2☐A6	2.2	20, 30	3	0.38	250(300)	650(750)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：

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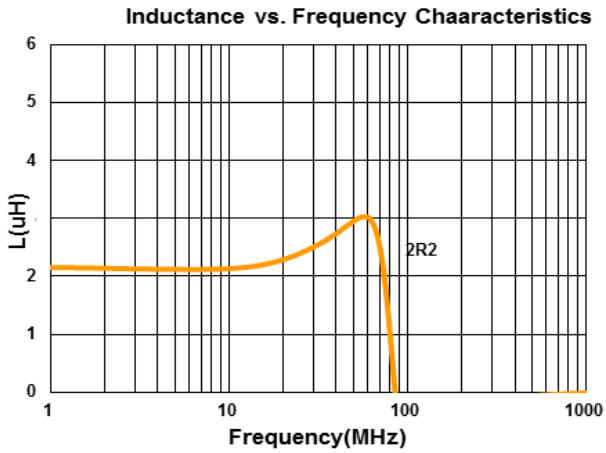
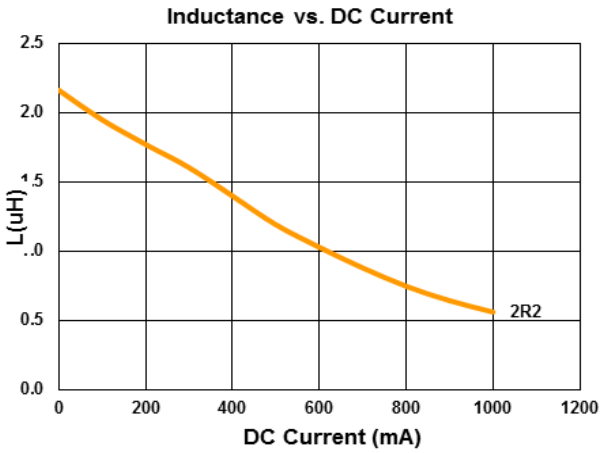
  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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BKPE001608DZ1R0☐A6	1.0	20, 30	3	0.13	500(650)	1300(1450)
BKPE001608DZ2R2☐A6	2.2	20, 30	3	0.38	300(350)	700(900)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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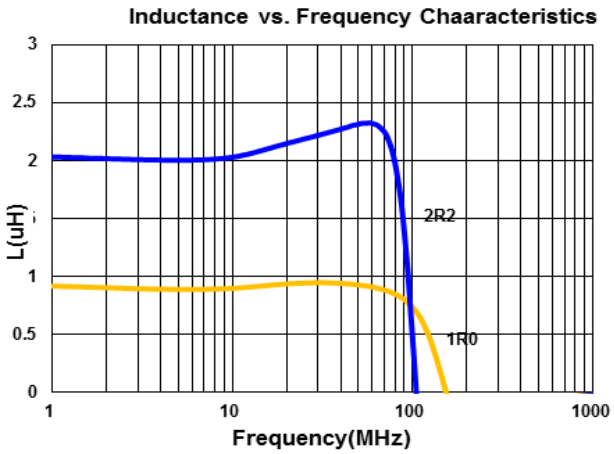

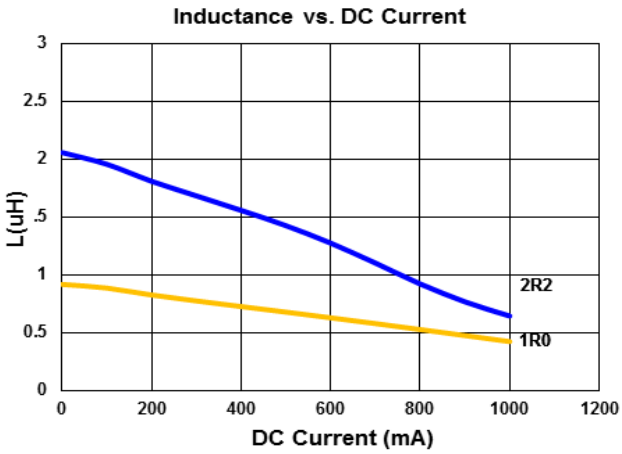

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BKPE00201210R24☐A2	0.24	20, 30	3	0.03	2700(3300)	2400(3200)
BKPE00201210R47☐A2	0.47	20, 30	3	0.06	1600(2000)	2200(3000)
BKPE002012101R0☐A2	1.0	20, 30	3	0.10	1400(1700)	1800(2100)
BKPE002012102R2☐A2	2.2	20, 30	3	0.125	500(800)	1600(1900)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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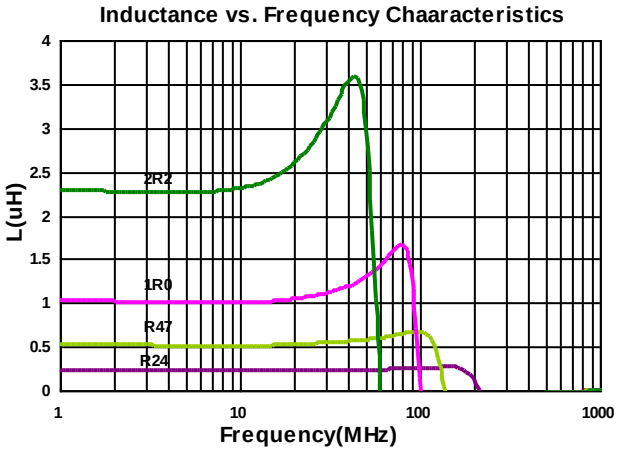
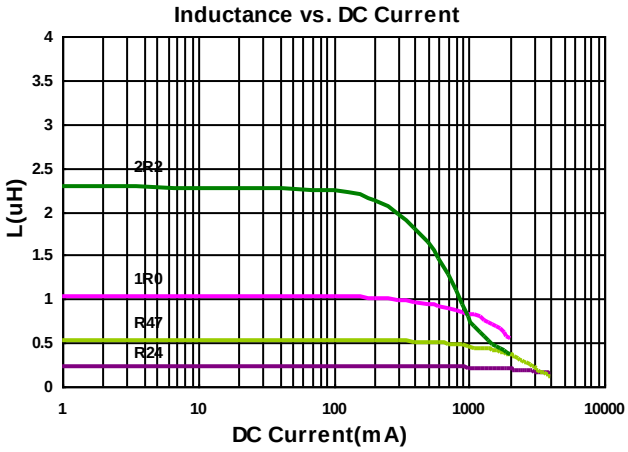
Test Instruments：HP4287A Inductance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat(mA) Max(Typ.)	Irms(mA) Max(Typ.)
BKPE00201610R24☐A2	0.24	20, 30	3	0.023	3600(4000)	3500(4200)
BKPE00201610R47☐A2	0.47	20, 30	3	0.037	2500(2900)	2600(3100)
BKPE00201610R68☐A2	0.68	20, 30	3	0.065	2500(2800)	2400(2800)
BKPE002016101R0☐A2	1.0	20, 30	3	0.068	1500(1900)	2200(2600)
BKPE002016101R5☐A2	1.5	20, 30	3	0.100	1500(1800)	1600(1900)
BKPE002016102R2☐A2	2.2	20, 30	3	0.210	1000(1300)	1500(1800)

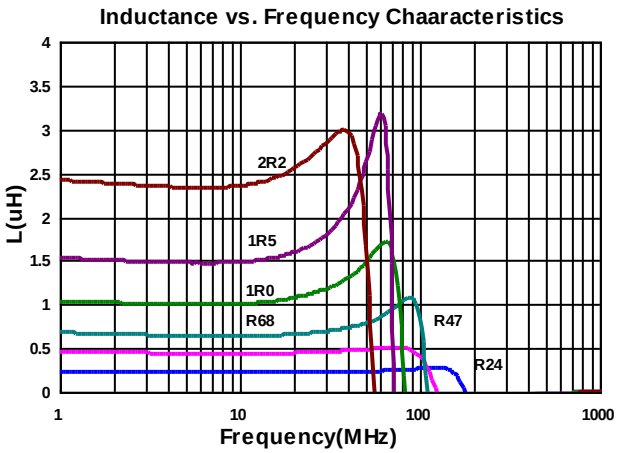
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

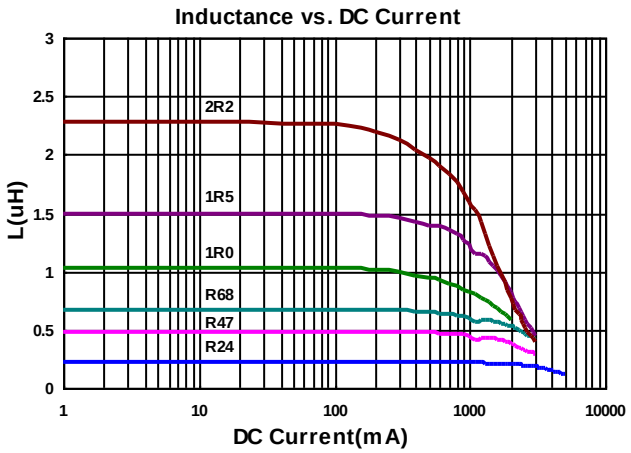
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：HP4287A Inductance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±25%	Isat(mA) Max(Typ.)	Irms(mA) Max(Typ.)
BKPE00252010R24☐A2	0.24	20, 30	3	0.024	4800(5200)	4100(4900)
BKPE00252010R47☐A2	0.47	20, 30	3	0.040	3100(3500)	3000(3600)
BKPE002520101R0☐A2	1.0	20, 30	3	0.050	1500(1900)	2900(3500)
BKPE002520102R2☐A2	2.2	20, 30	3	0.110	1400(1700)	1600(1900)

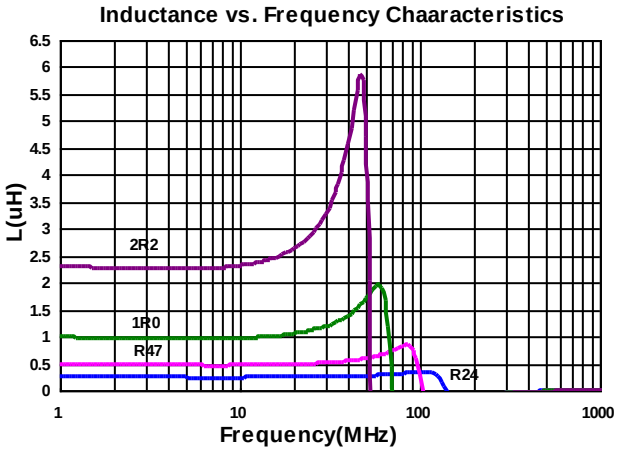
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

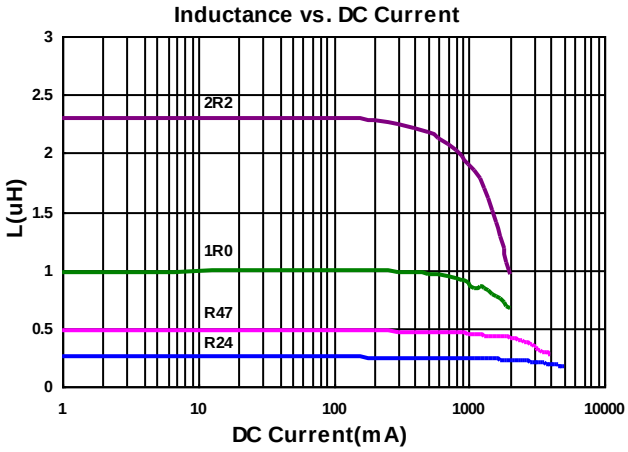
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4287A+16197A, 3MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments： HP4287A Inductance / Material Analyzer





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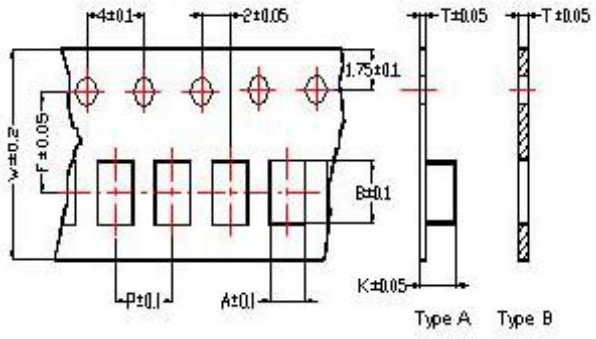
Pulse a YAGEO company

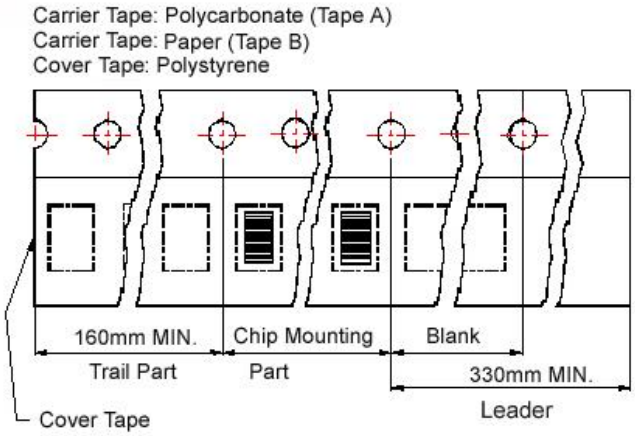
CHILISIN ELECTRONICS CORP.

Packaging Specifications

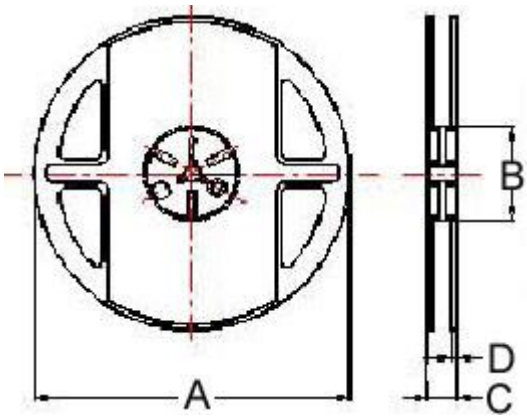
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	PCS / REEL
1608FZ	1.05	1.85	0.75	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
1608DZ	1.05	1.85	0.95	8.0	4.0	3.5	-	B	178	60	12	1.5	4000
201210	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	3000
201610	1.80	2.20	0.22	8.0	4.0	3.5	1.15	A	178	60	12	1.5	3000
252010	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000
252012	2.25	2.8	0.25	8.0	4.0	3.5	1.35	A	178	60	12	1.5	3000

Multilayer Power Inductors

The BKPB Series is a miniature type of multilayer power inductor constructed using low-loss ferrite material to support high-speed switching frequencies. The compact size and high efficiency is ideal for DC-DC converter applications in space-limited boards.

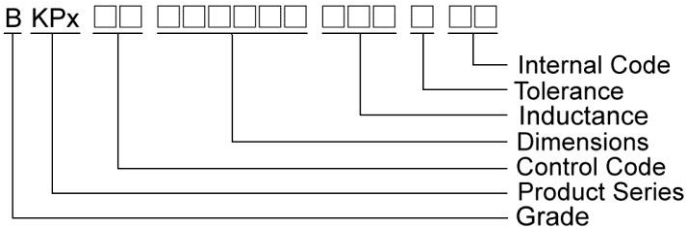
Features

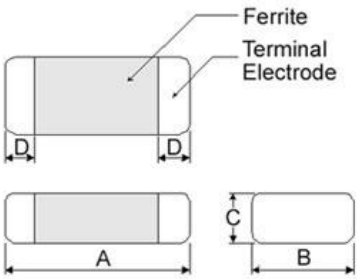
- For High Frequency SW (15MHz to 200MHz)
- Bias Current Characteristics improved.
- Low Power loss
- High DC Bias
- High Current
- Low ACR

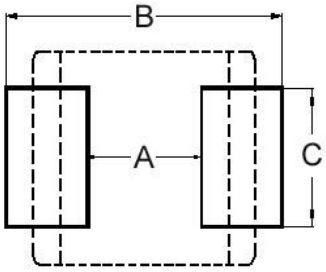
Applications

- High Frequency DC/DC converter.

Product Identification







Dimensions in mm

TYPE	A	B	C	D
2012C5	2.0±0.20	1.25±0.20	0.95 Max	0.5±0.3

Dimensions in mm

TYPE	A	B	C
2012C5	0.8 ~ 1.2	2.3 ~ 2.9	1.0 ~ 1.4

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Max	Irms (mA) Max
BKPB002012C522N□A2	0.022	10, 20	50	0.044	3000	2000
BKPB002012C533N□A2	0.033	10, 20	50	0.050	2700	1800
BKPB002012C547N□A2	0.047	10, 20	50	0.058	2400	1600

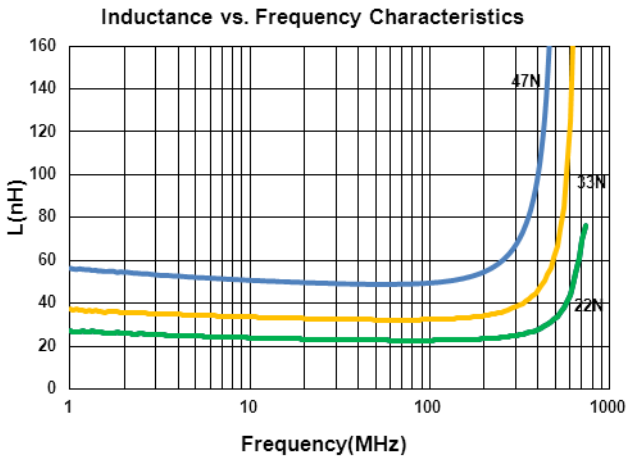
Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

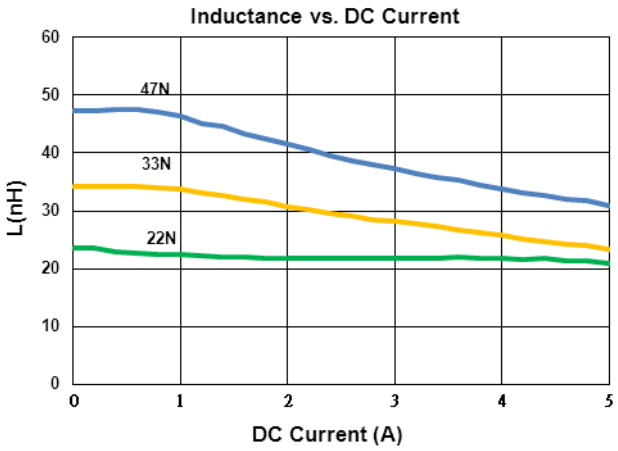
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent E4991A+16197A, 50MHz 200mV

  RDC：HP 4338B, or equivalent

Test Instruments：E4991A Inductance / Material Analyzer





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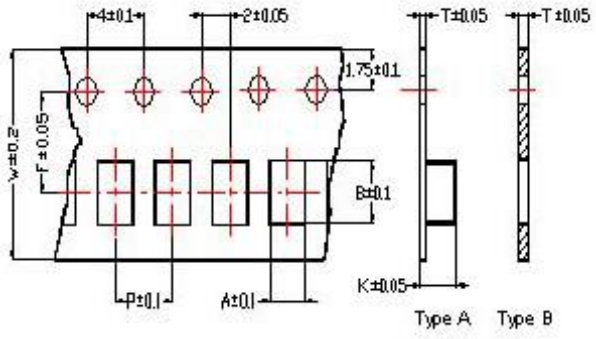
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

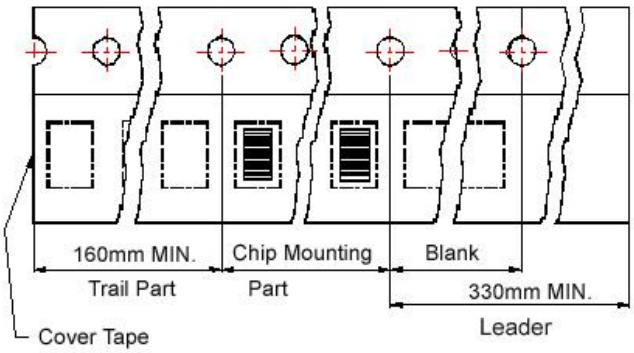
Packaging Specifications

Tape Dimensions

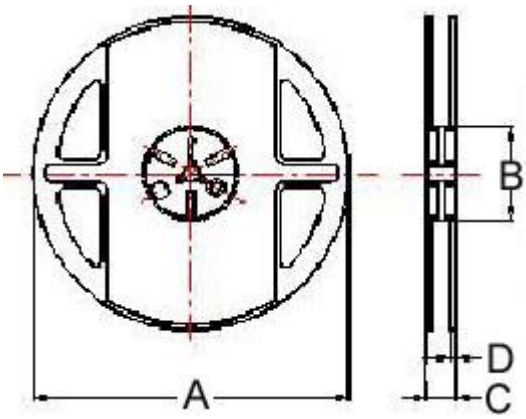


Tape Material

Carrier Tape: Polycarbonate (Tape A)
Carrier Tape: Paper (Tape B)
Cover Tape: Polystyrene



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity
	A	B	T	W	P	F	K	Tape Type	A	B	C	D	PCS / REEL
2012C5	1.45	2.25	0.22	8.0	4.0	3.5	1.04	A	178	60	12	1.5	3000

BMQx Series

BMQx series is low profile molding power choke with low RDC and high Q factor, so the efficiency performance is also superior. Its molded magnetic shielded type is suitable for high-density mounting and ultra-low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

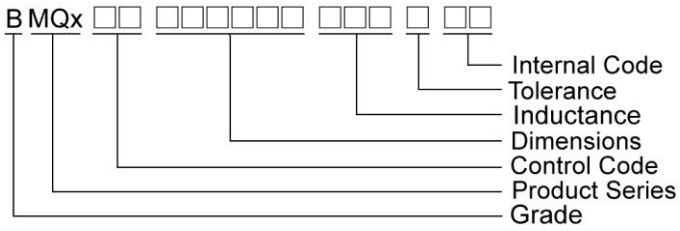
Features

- RoHS, Halogen Free and REACH Compliance
- Low RDC
- High Q
- High Efficiency
- Ultra-low buzz noise

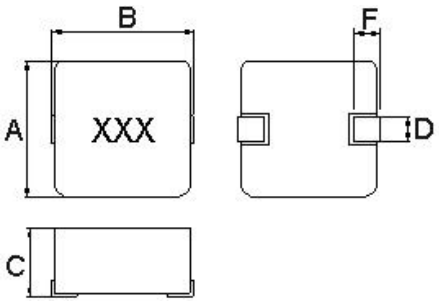
Applications

- Laptops and PCs
- Switches and servers
- Base stations
- DC/DC converters

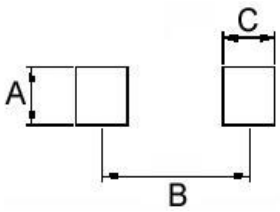
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	F
BMQE00040410	4.1±0.2	4.6±0.2	1.0Max	1.5±0.3	1.0±0.3
BMQE00040411	4.1±0.2	4.6±0.2	1.1Max	1.5±0.3	1.0±0.3
BMQE00050511	5.5±0.2	5.7±0.2	1.1Max	2.0±0.3	1.5±0.3
BMQE00060611	6.6±0.2	6.95±0.35	1.1Max	3.0±0.3	1.6±0.3

Dimensions in mm

TYPE	A	B	C
BMQE00040410	2.5	3.7	1.5
BMQE00040411	2.5	3.7	1.5
BMQE00050511	2.5	4.1	1.9
BMQE00060611	3.5	6.05	2.35

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE00040410R33MAA	0.33	20	100	14(12)	9.0(11)	6.0(7.0)	R33
BMQE000404101R0MAA	1.0	20	100	43(39)	4.0(5.0)	4.0(4.5)	1R0

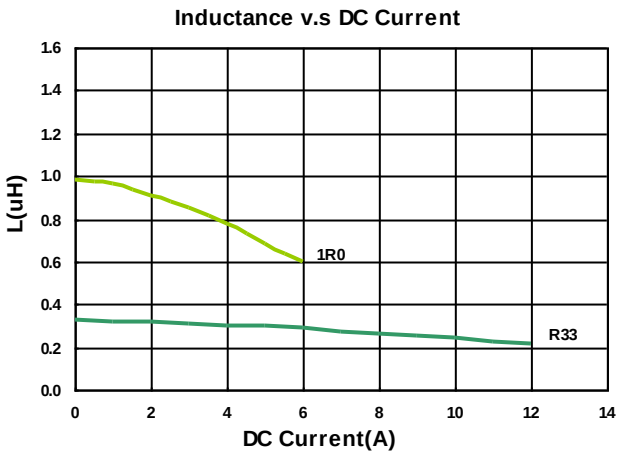
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

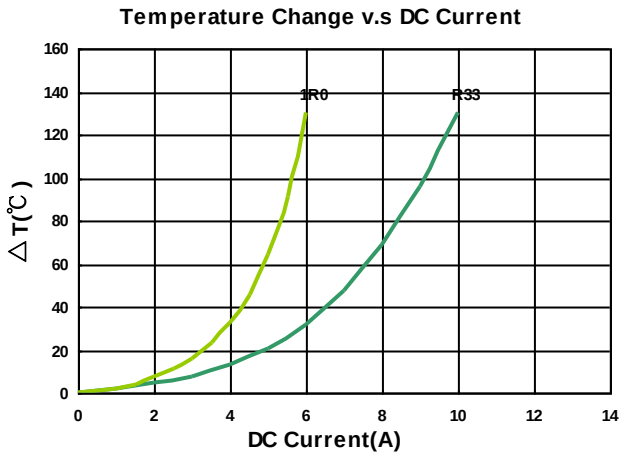
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000404111R0MAA	1.0	20	100	38.5(35)	5.4(6.0)	4.3(4.8)	1R0
BMQE000404112R2MAA	2.2	20	100	82(75)	3.5(4.0)	3.0(3.3)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

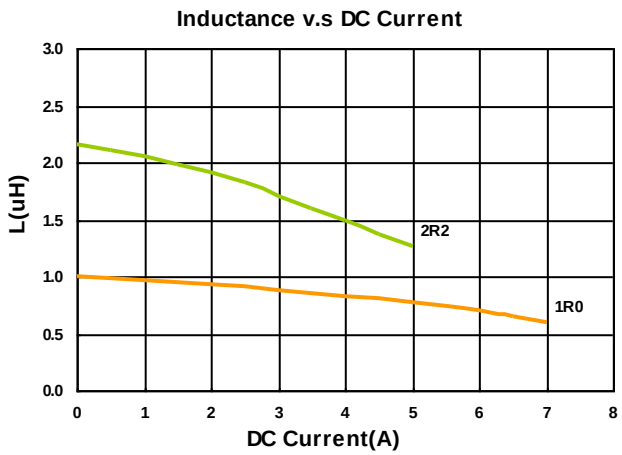
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

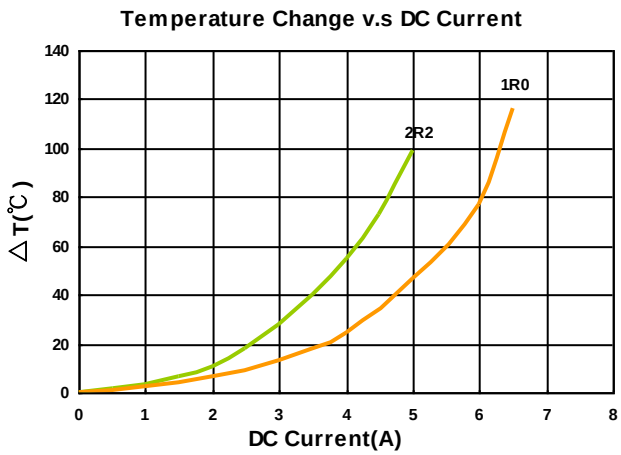
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000505111R0MAA	1.0	20	100	33(30)	7.0(7.5)	4.8(5.3)	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

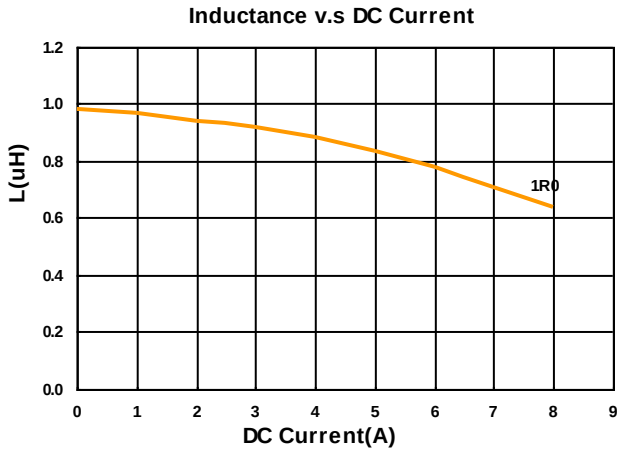
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

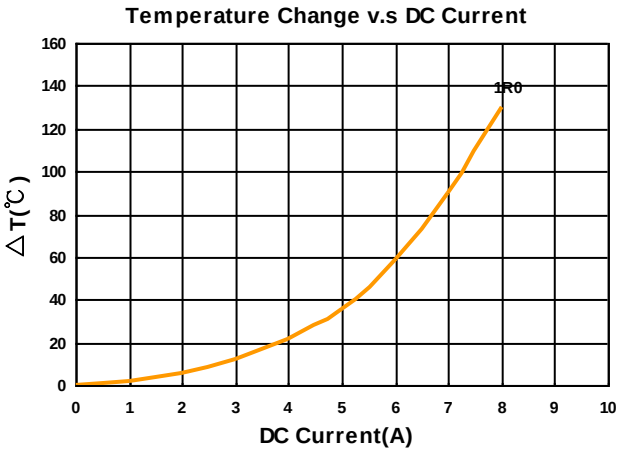
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMQE000606111R0MAA	1.0	20	100	26(24.5)	7.0(7.8)	6.8(7.3)	1R0
BMQE000606112R2MAA	2.2	20	100	57(52)	5.0(6.0)	4.2(4.6)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

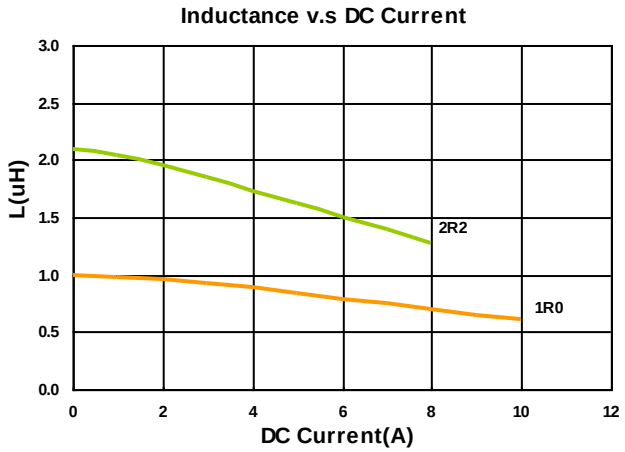
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

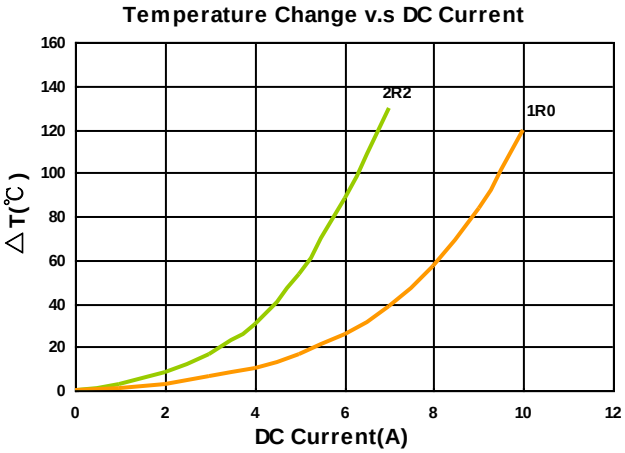
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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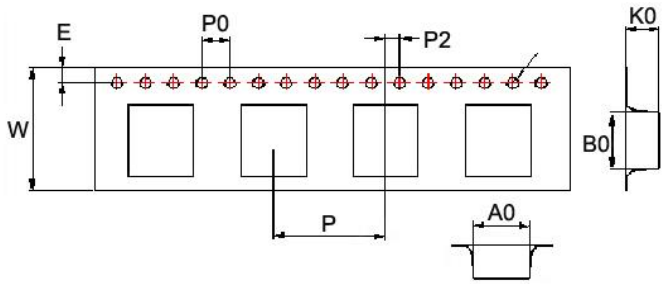
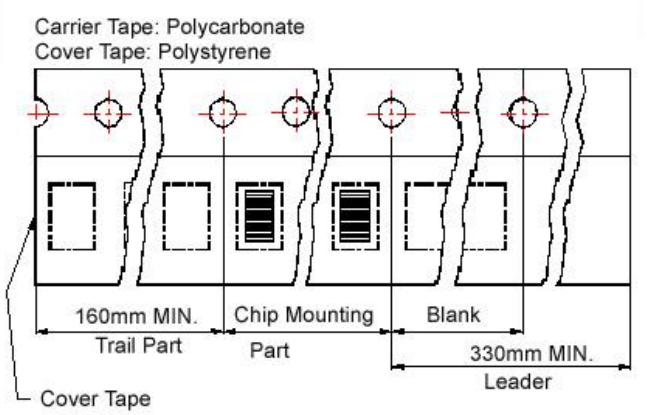
Packaging Specifications

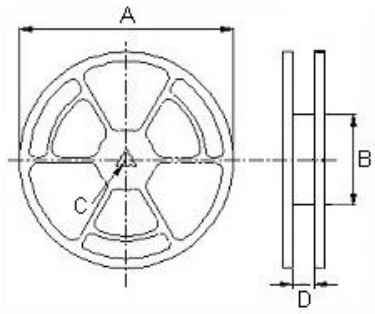
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMQE00040410	4.4	4.9	1.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMQE00040411	4.4	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMQE00050511	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	16	2000
BMQE00060611	6.9	7.4	1.5	1.55	1.75	16	12	4	2	330	100	13	16	1000

BMRx Series

BMRx series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

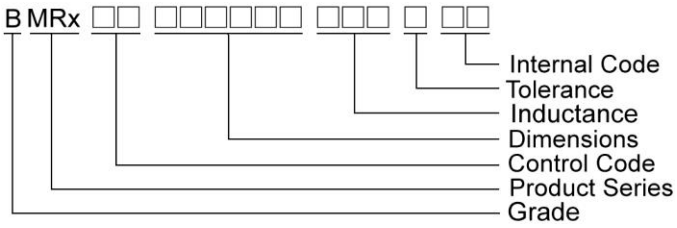
Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

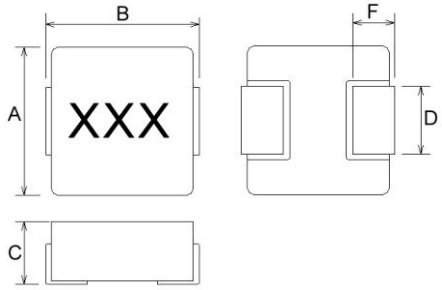
Applications

- Laptops and PCs
- Switchs and servers
- Base stations
- DC/DC converters

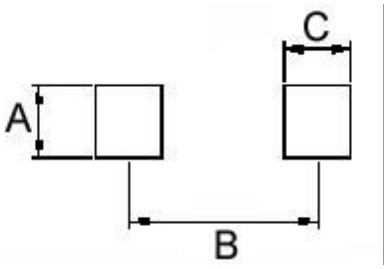
Product Identification



Shape and Dimensions



Recommended Pattern



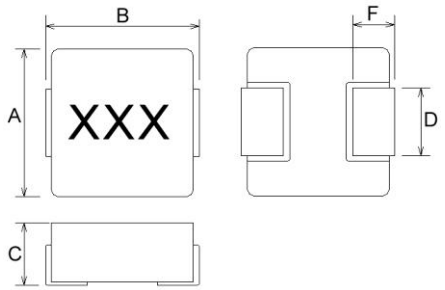
Dimensions in mm

TYPE	A	B	C	D	F
BMRx00040412	4.1±0.2	4.6±0.2	1.2Max	1.5±0.3	1.0±0.5
BMRA00040415	4.1±0.2	4.6±0.2	1.5Max	1.5±0.3	1.0±0.5
BMRA00040420	4.1±0.2	4.6±0.2	2.0Max	1.5±0.3	1.0±0.5
BMRB00050512	5.4±0.35	5.7±0.2	1.2Max	2.0±0.3	1.1±0.3
BMRx00050512-B	5.2±0.2	5.4±0.35	1.2Max	2.0±0.3	1.0±0.3
BMRx00050515	5.4±0.35	5.7±0.2	1.5Max	2.0±0.3	1.5±0.3
BMRB00050518	5.4±0.35	5.7±0.2	1.8Max	2.0±0.3	1.5±0.3
BMRB00050518-B	5.2±0.2	5.4±0.35	1.6±0.2	2.0±0.3	1.1±0.3

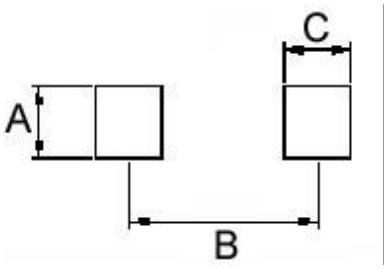
Dimensions in mm

TYPE	A	B	C
BMRx00040412	2.5	3.7	1.5
BMRA00040415	2.5	3.7	1.5
BMRA00040420	2.5	3.7	1.5
BMRx00050512	2.5	4.1	1.9
BMRx00050515	2.5	4.1	1.9
BMRB00050518	2.5	4.1	1.9

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	F
BMRA00050520	5.4±0.35	5.7±0.2	1.8±0.2	2.0±0.3	1.5±0.3
BMRA00050530	5.4±0.35	5.7±0.2	3.0Max	2.0±0.3	1.5±0.3
BMRB00060612	6.6±0.2	7.3Max	1.2 Max	2.9	1.6±0.5
BMRx00060615	6.6±0.2	7.3Max	1.3±0.2	2.9	1.6±0.5
BMRB00060618	6.6±0.2	7.3Max	1.6±0.2	2.9	1.6±0.5
BMRB00060624	6.6±0.2	7.3Max	2.4Max	2.9	1.6±0.5
BMRx00060630	6.6±0.2	7.3Max	3.0Max	2.9	1.6±0.5
BMRB00060650	6.6±0.2	7.3Max	5.0Max	2.9	1.6±0.5
BMRG00101030	10.1±0.3	11.6Max	3.0Max	3.0	2.5±0.5
BMRF00101040	10.1±0.3	11.6Max	4.0Max	3.0	2.5±0.5
BMRF00131350	12.6±0.2	13.8Max	5.0Max	3.7	2.7±0.7
BMRF00131360	12.6±0.2	13.8Max	5.8±0.2	5.0±0.5	2.0±0.5
BMRG00131360	12.6±0.2	13.8Max	6.0 Max	5.0±0.5	2.0±0.5
BMRF00171770	17.15Max	17.15±0.35	6.8±0.2	12±0.3	2.5±0.5

Dimensions in mm

TYPE	A	B	C
BMRA00050520	2.5	4.1	1.9
BMRA00050530	2.5	4.1	1.9
BMRB00060612	3.5	6.05	2.35
BMRx00060615	3.5	6.05	2.35
BMRB00060618	3.5	6.05	2.35
BMRB00060624	3.5	6.05	2.35
BMRx00060630	3.5	6.05	2.35
BMRB00060650	3.5	6.05	2.35
BMRG00101030	4.0	9.5	3.5
BMRF00101040	4.0	9.5	3.5
BMRF00131350	5.0	10.5	4.0
BMRF00131360	5.5	10.5	4.0
BMRG00131360	5.5	10.5	4.0
BMRF00171770	12.8	14.7	3.5

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00040412R22MA1	0.22	20	100	12	11.5	8.5
BMRA00040412R33MA1	0.33	20	100	19	8.5	6.5
BMRA00040412R47MA1	0.47	20	100	25	7.0	5.0
BMRA00040412R68MA1	0.68	20	100	36	6.0	4.5
BMRA000404121R0MA1	1.0	20	100	47	5.2	4.2
BMRA000404121R5MA1	1.5	20	100	75	4.0	3.25
BMRA000404122R2MA1	2.2	20	100	83.5	3.5	2.75
BMRA000404123R3MA1	3.3	20	100	165	3.0	2.0
BMRA000404124R7MA1	4.7	20	100	195	2.8	1.8

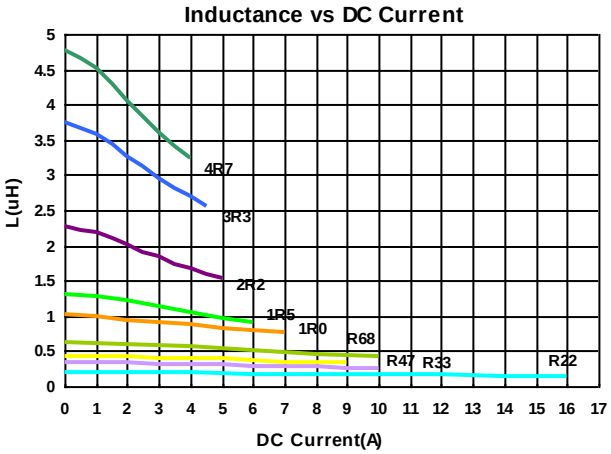
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

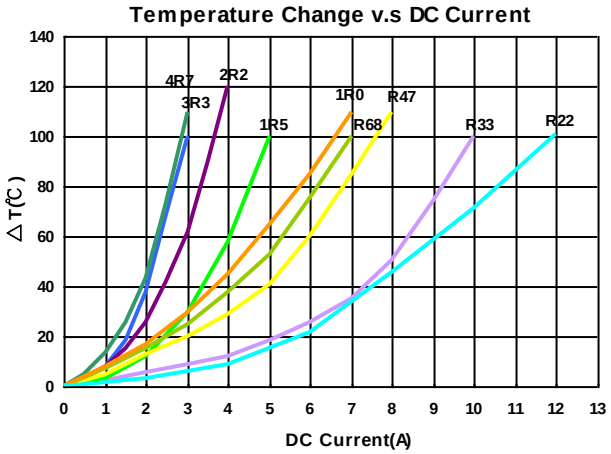
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRB000404124R7MA1	4.7	20	100	195(175)	2.2(2.8)	1.6(1.8)
BMRB000404126R8MA1	6.8	20	100	368(320)	1.9(2.2)	1.5(1.7)

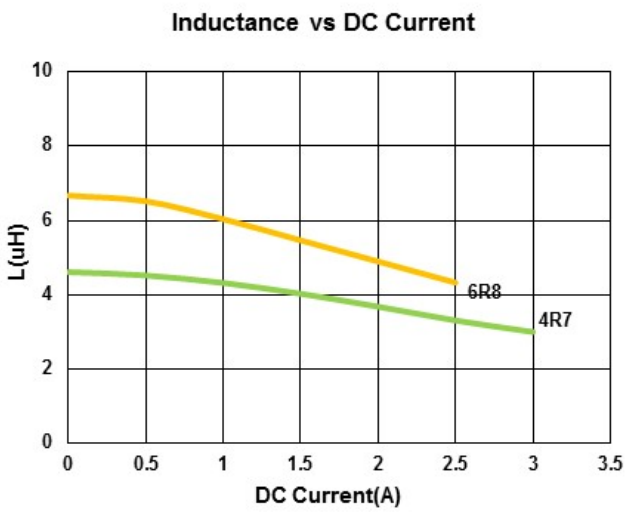
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

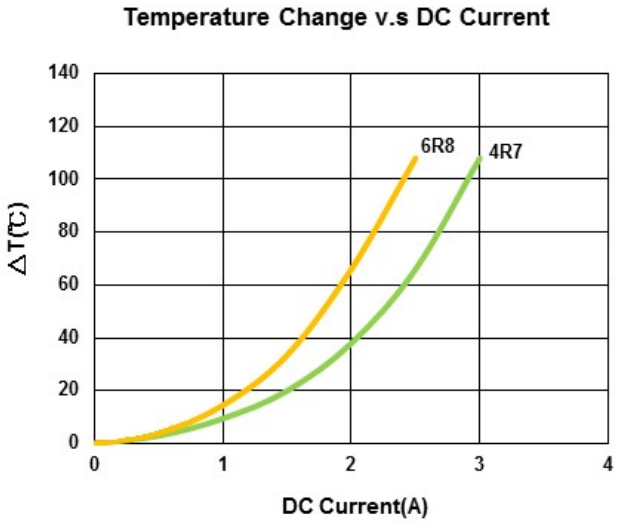
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA000404151R0MA1	1.0	20	100	42	7	4
BMRA000404151R5MA1	1.5	20	100	50	6	3.5
BMRA000404152R2MA1	2.2	20	100	79	5	3
BMRA000404153R3MA1	3.3	20	100	132	4.5	2.3
BMRA000404154R7MA1	4.7	20	100	146	4	2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

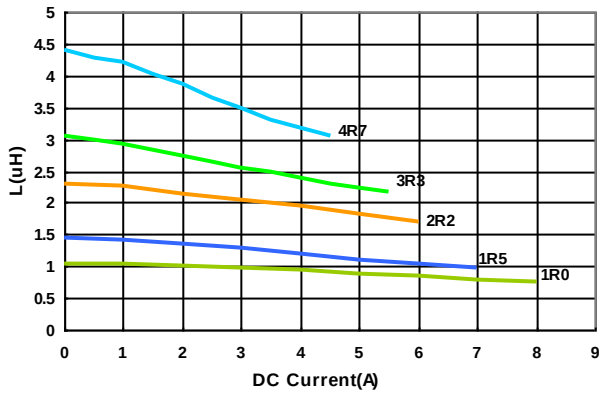
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

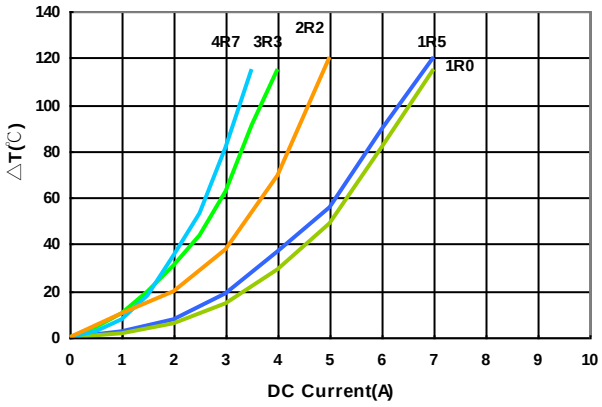
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance vs DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00040420R10MA1	0.10	20	100	4	25	12.0
BMRA00040420R22MA1	0.22	20	100	6.6	12.5	9.0
BMRA00040420R47MA1	0.47	20	100	14	9.5	7.0
BMRA00040420R56MA1	0.56	20	100	16	10.0	6.5
BMRA00040420R68MA1	0.68	20	100	21	8.0	5.2
BMRA000404201R0MA1	1.0	20	100	27	7.0	4.5
BMRA000404201R5MA1	1.5	20	100	46	6.0	4.0
BMRA000404202R2MA1	2.2	20	100	58	5.0	3.0
BMRA000404203R3MA1	3.3	20	100	87	4.0	2.5
BMRA000404204R7MA1	4.7	20	100	126	3.0	2.2
BMRA000404206R8MA1	6.8	20	100	135	2.5	2.0
BMRA000404208R2MA1	8.2	20	100	216	2.5	2.0
BMRA00040420100MA1	10	20	100	258	2.0	1.6

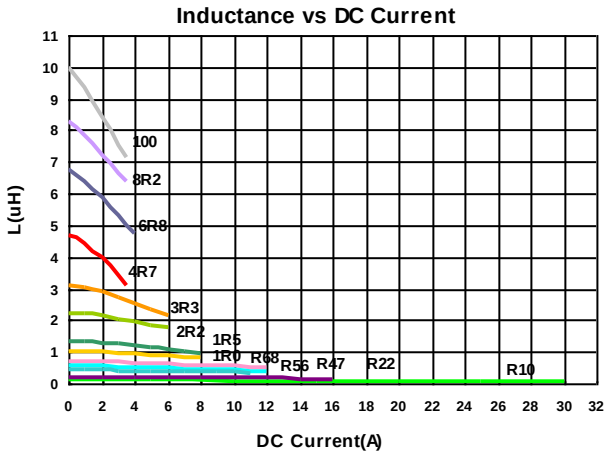
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

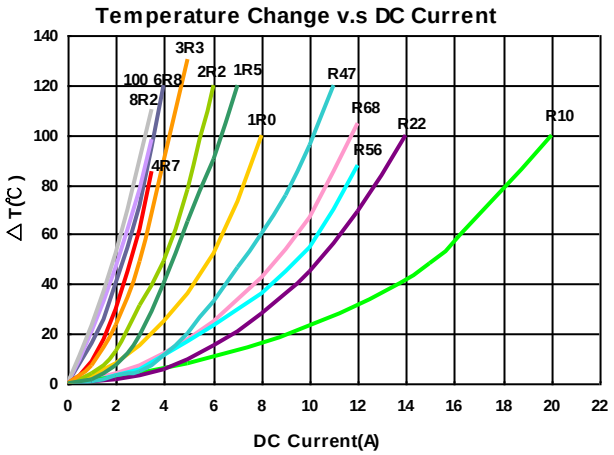
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100KHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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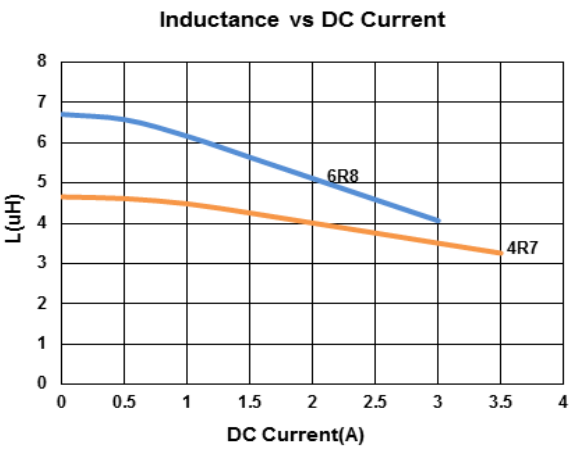
Electrical Characteristics

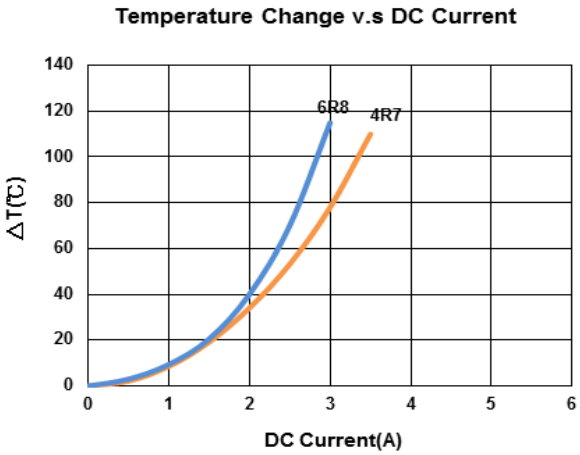
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRA000505124R7MB1	4.7	20	100	163(144)	2.9(3.5)	2(2.3)
BMRA000505126R8MB1	6.8	20	100	245(220)	2.2(2.4)	1.85(2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：
  L：WK 3260B or WK 6500P, 100kHz 0.5V
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000505121R0MA1	1.0	20	100	30	6.0	5.0
BMRB000505122R2MA1	2.2	20	100	76	4.0	3.5
BMRB000505126R8MA1	6.8	20	100	250	2.3	2.0

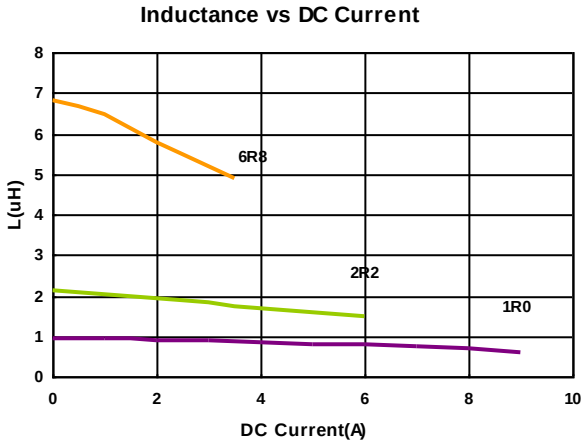
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

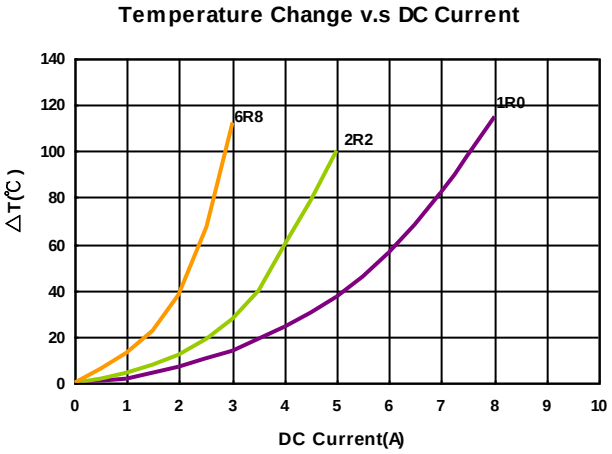
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BMRB000505124R7MB1	4.7	20	100	135(110)	3.2(3.7)	2.7(3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：
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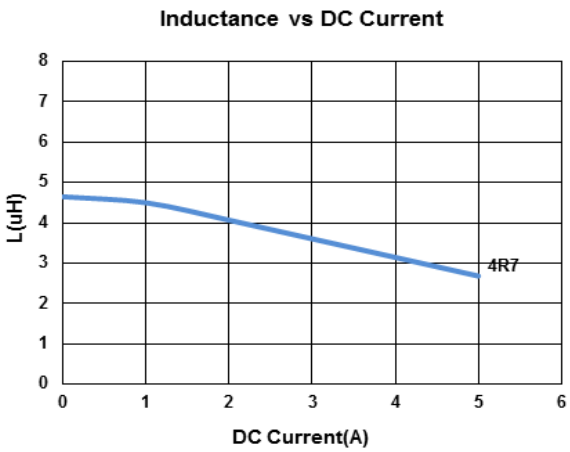
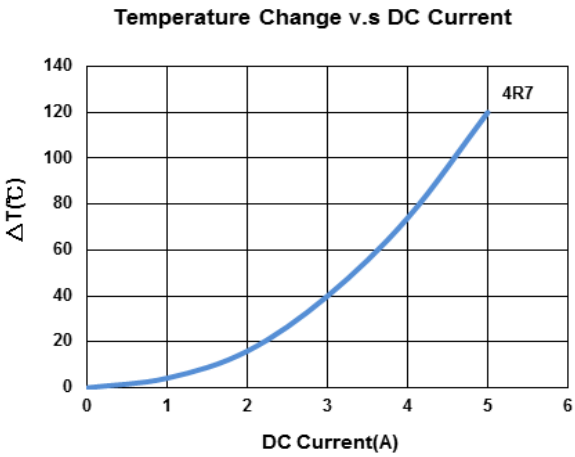
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050515R47MA1	0.47	20	100	16	12	8.0
BMRA00050515R68MA1	0.68	20	100	23	10	6.0
BMRA000505151R0MA1	1.0	20	100	33	8.0	5.0
BMRA000505151R5MA1	1.5	20	100	50	6.0	4.0
BMRA000505152R2MA1	2.2	20	100	68	6.0	3.3
BMRA000505153R3MA1	3.3	20	100	84	5.0	3.0
BMRA000505154R7MA1	4.7	20	100	135	4.0	2.5
BMRA000505155R6MA1	5.6	20	100	175	3.5	2.2
BMRA000505156R8MA1	6.8	20	100	192	3.0	2.0
BMRA00050515100MA1	10	20	100	195	2.0	1.5

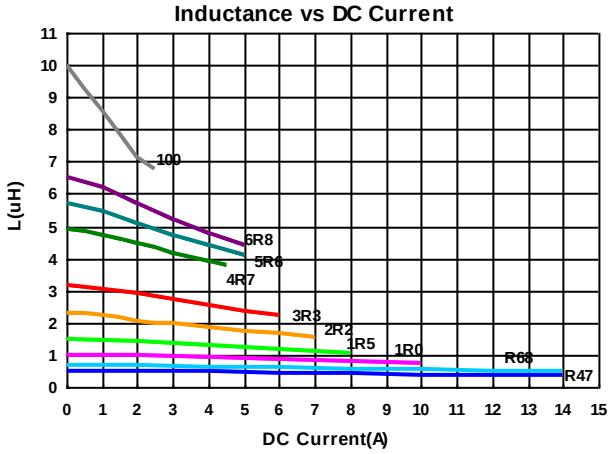
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

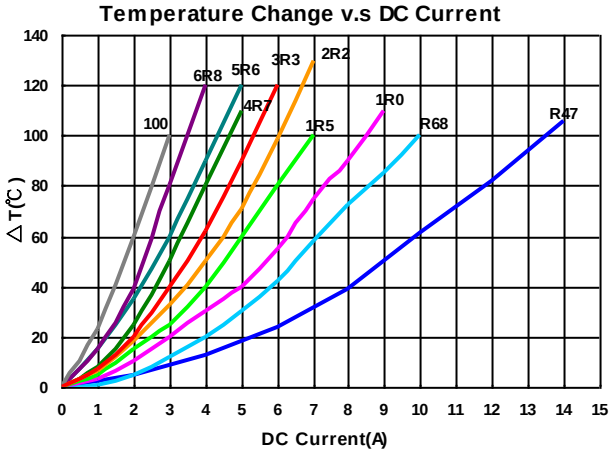
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000505151R0MA1	1.0	20	100	23	9	6.5
BMRB000505152R2MA1	2.2	20	100	64	6	3.3
BMRB000505154R7MA1	4.7	20	100	106	4	3.0
BMRB00050515100MA1	10	20	100	170	3	2.0

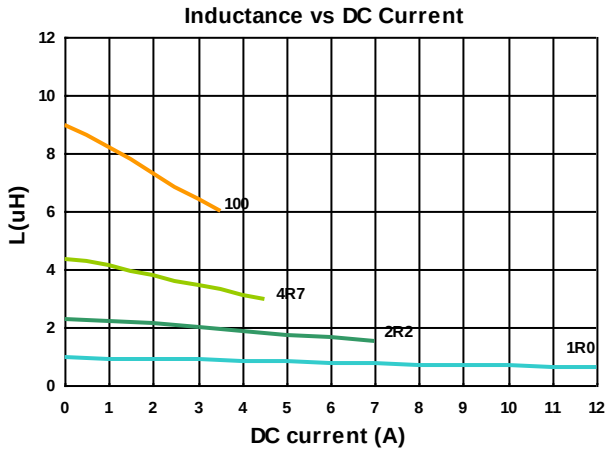
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

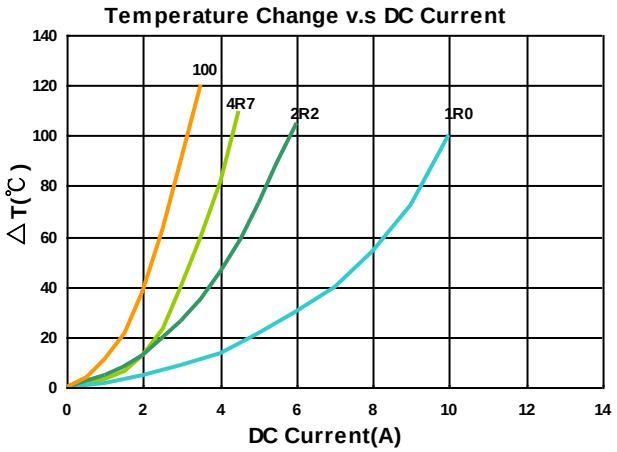
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BMRB00050518R47MB1	0.47	20	100	8.5(7.6)	15.5	10.5
BMRB00050518R68MB1	0.68	20	100	13.8(12)	13	9
BMRB000505181R0MB1	1.0	20	100	18(15)	10	8
BMRB000505181R5MB1	1.5	20	100	28(23)	9	6.2

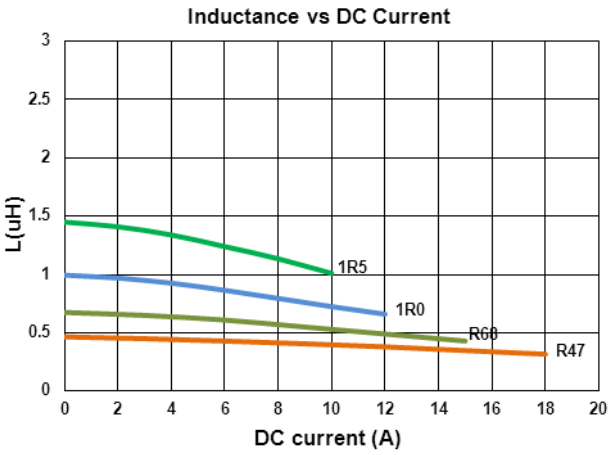
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

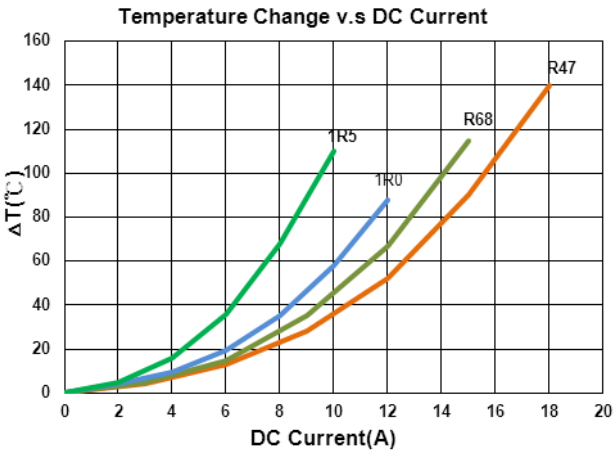
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00050518R47MA1	0.47	20	100	9.0	15.5	10.5
BMRB000505181R0MA1	1.0	20	100	17	9.0	8.0
BMRB000505182R2MA1	2.2	20	100	35	6.5	5.0
BMRB000505183R3MA1	3.3	20	100	58	5.0	4.5
BMRB000505184R7MA1	4.7	20	100	85	4.0	3.5
BMRB000505186R8MA1	6.8	20	100	120	3.4	2.8
BMRB00050518100MA1	10	20	100	155	3.0	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

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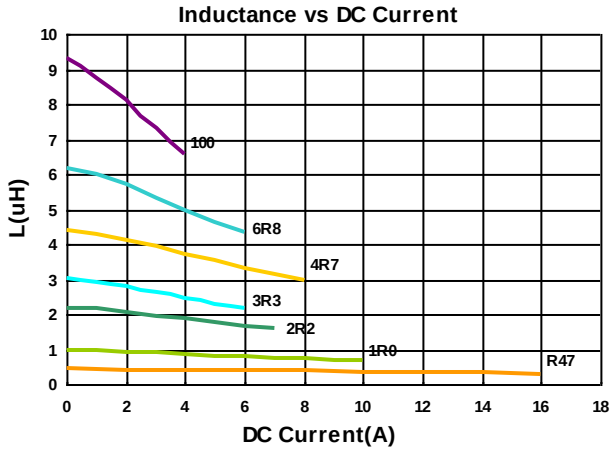
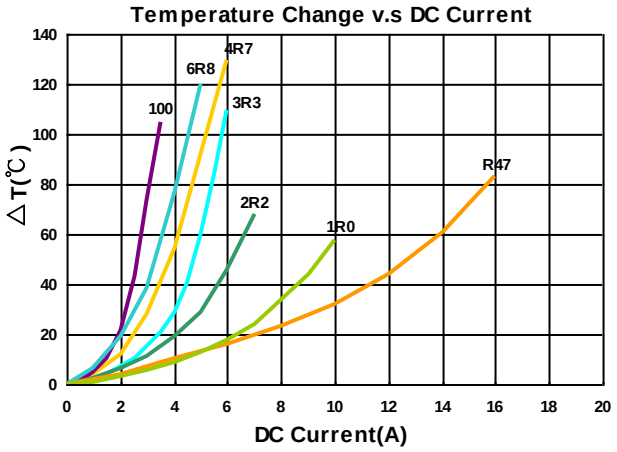
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050520R47MA1	0.47	20	100	9	15.5	10.5
BMRA000505201R0MA1	1.0	20	100	30	7.0	6.0
BMRA000505201R5MA1	1.5	20	100	35	6.5	5.5
BMRA000505202R2MA1	2.2	20	100	45	6.0	4.0
BMRA000505203R3MA1	3.3	20	100	60	5.5	3.5
BMRA000505204R7MA1	4.7	20	100	90	5.0	3.0
BMRA000505205R6MA1	5.6	20	100	120	4.5	2.8
BMRA000505206R8MA1	6.8	20	100	125	4.5	2.8
BMRA00050520100MA1	10	20	100	180	4.0	2.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

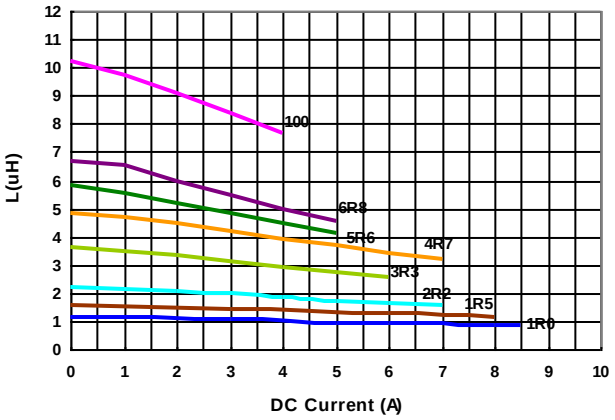
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

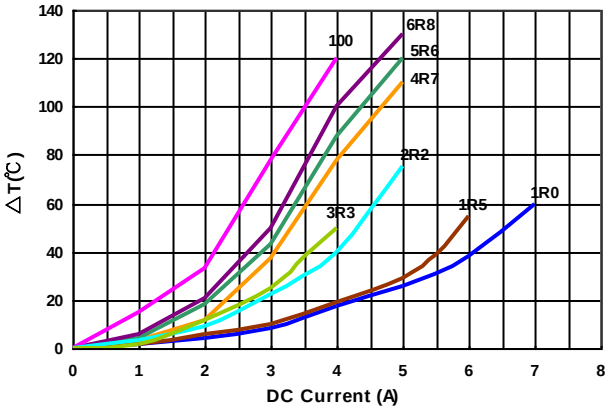
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00050530R20MA1	0.20	20	100	3.9	14.5	17.0
BMRA00050530R47MA1	0.47	20	100	8	14	10.0
BMRA00050530R68MA1	0.68	20	100	12	14	8.0
BMRA000505301R0MA1	1.0	20	100	15	11	7.0
BMRA000505301R2MA1	1.2	20	100	15	11	6.5
BMRA000505301R5MA1	1.5	20	100	25	10	6.0
BMRA000505302R2MA1	2.2	20	100	35	8	5.0
BMRA000505303R3MA1	3.3	20	100	46	7	4.5
BMRA000505304R7MA1	4.7	20	100	60	6	4.0
BMRA000505306R8MA1	6.8	20	100	110	5	3.0
BMRA00050530100MA1	10	20	100	126	4.5	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

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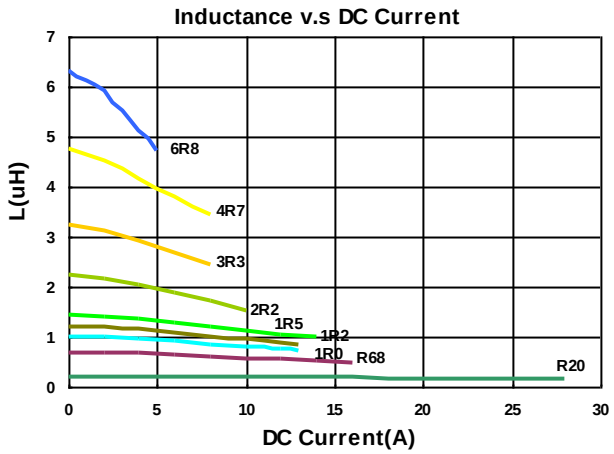
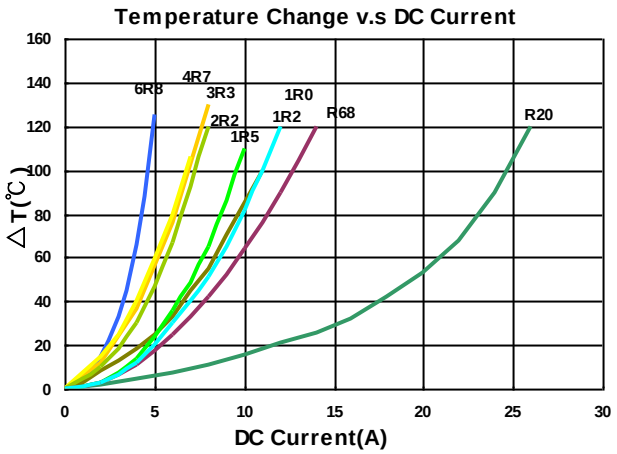
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000606124R7MA1	4.7	20	100	122	3.5	2.5
BMRB000606126R8MA1	6.8	20	100	210	2.8	2.2

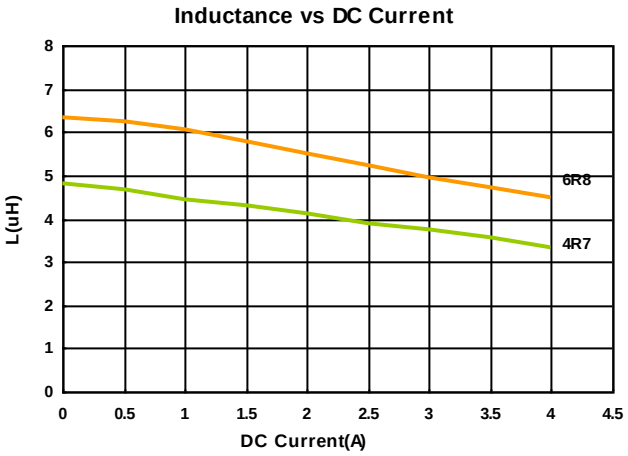
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

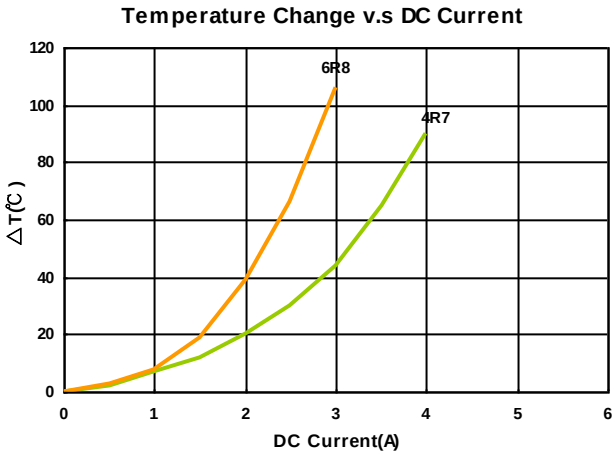
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRA000606152R2MA1	2.2	20	100	54	6.0	3.5
BMRA000606153R3MA1	3.3	20	100	63	5.5	3.3
BMRA000606154R7MA1	4.7	20	100	105	4.5	3.2
BMRA000606156R8MA1	6.8	20	100	140	4.0	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

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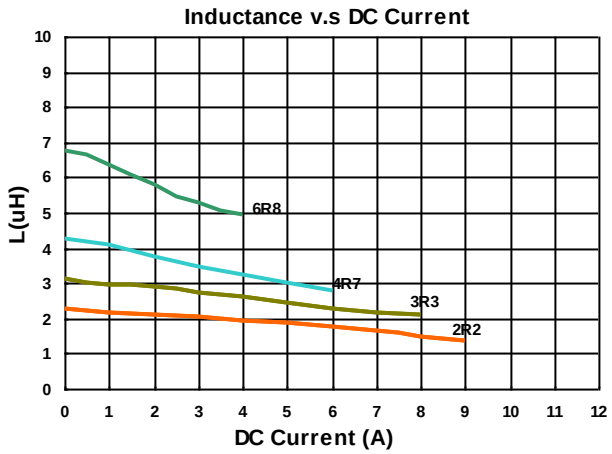

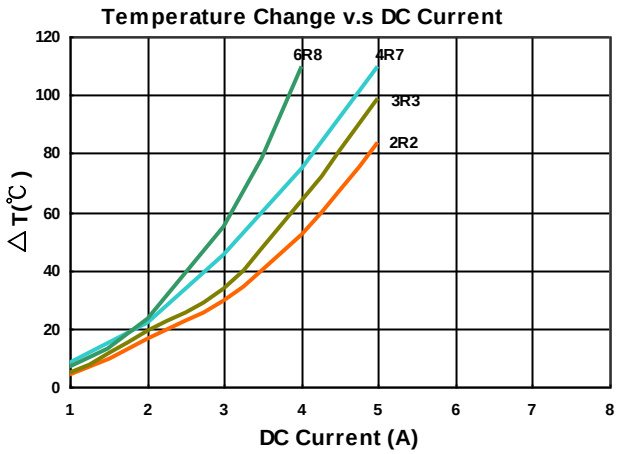

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB000606151R0MA1	1.0	20	100	21	9.0	5.5
BMRB000606153R3MA1	3.3	20	100	63	5.5	3.3
BMRB00060615100MA1	10	20	100	175	3.0	2.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

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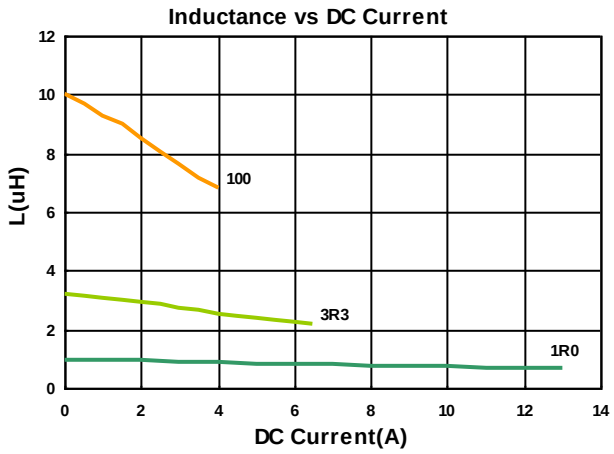

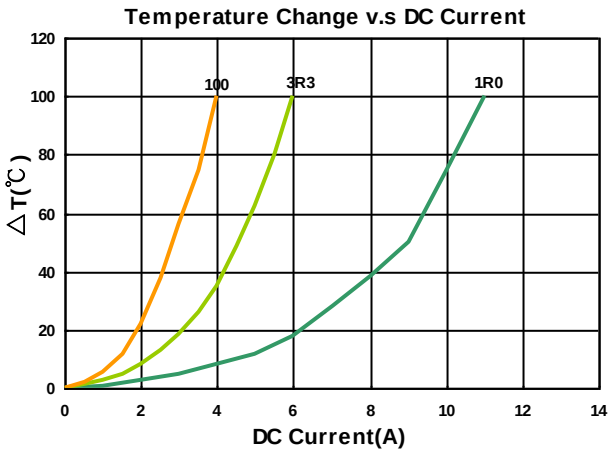

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060618R22MA1	0.22	20	100	5.2	29	14
BMRB00060618R33MA1	0.33	20	100	6.8	22	12
BMRB00060618R47MA1	0.47	20	100	8.4	18	11
BMRB00060618R68MA1	0.68	20	100	12.7	17	9
BMRB000606181R0MA1	1.0	20	100	17	14	7
BMRB000606181R5MA1	1.5	20	100	26	12	6.5
BMRB000606182R2MA1	2.2	20	100	35	10	6.0
BMRB000606184R7MA1	4.7	20	100	70	5	3.5
BMRB000606186R8MA1	6.8	20	100	110	3.5	2.8
BMRB00060618100MA1	10	20	100	155	2.5	2.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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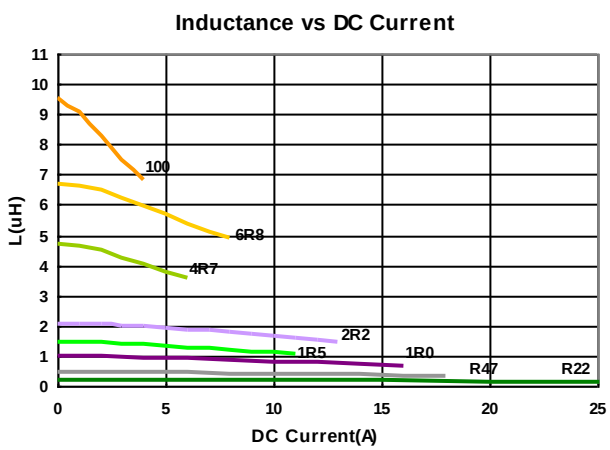

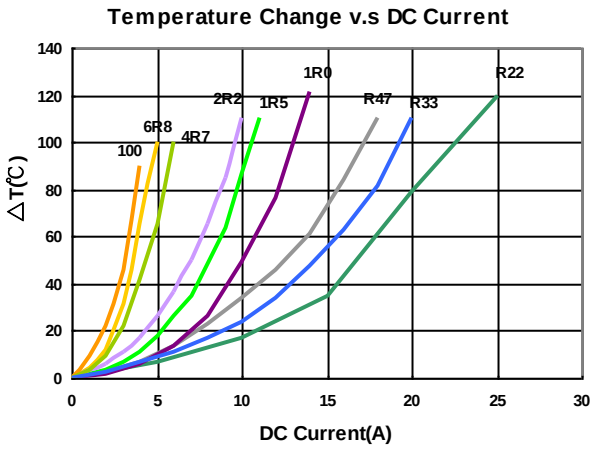

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060624R22MA1	0.22	20	100	3.2	34	21
BMRB00060624R33MA1	0.33	20	100	4.1	24.5	18
BMRB00060624R47MA1	0.47	20	100	5.1	22	15
BMRB000606241R0MA1	1.0	20	100	13.5	16	9
BMRB000606241R5MA1	1.5	20	100	20	15	9
BMRB000606242R2MA1	2.2	20	100	28	11	7
BMRB000606243R3MA1	3.3	20	100	39	10	5.5
BMRB000606244R7MA1	4.7	20	100	50	10	5.0
BMRB000606246R8MA1	6.8	20	100	70	6.0	4.0
BMRB00060624100MA1	10	20	100	101	4.0	3.1
BMRB00060624150MA1	15	20	100	160	3.3	2.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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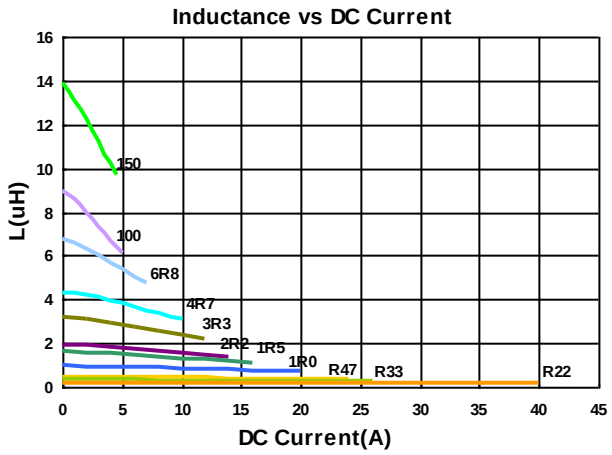

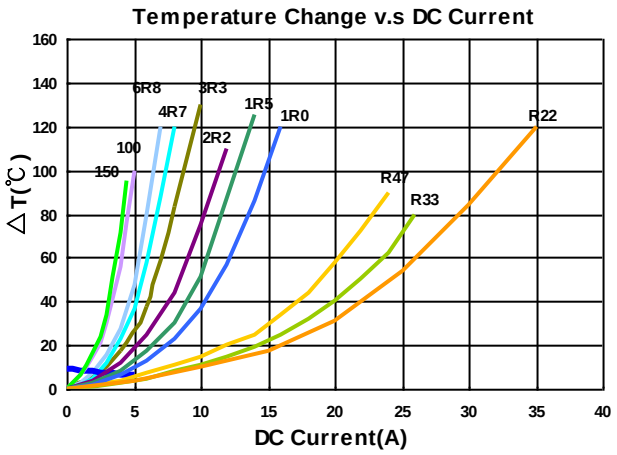

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRA00060630R10MA1	0.10	20	100	1.5	45	37
BMRA00060630R22MA1	0.22	20	100	2.8	40	23
BMRA00060630R33MA1	0.33	20	100	4.2	33	20
BMRA00060630R47MA1	0.47	20	100	5.5	27	16.5
BMRA00060630R56MA1	0.56	20	100	5.5	27	16.5
BMRA00060630R68MA1	0.68	20	100	6.3	24	15
BMRA00060630R82MA1	0.82	20	100	8.0	23	13
BMRA000606301R0MA1	1.0	20	100	10	22	12
BMRA000606301R5MA1	1.5	20	100	15	18	9.5
BMRA000606301R8MA1	1.8	20	100	15	14	9.5
BMRA000606302R2MA1	2.2	20	100	20	14	8.5
BMRA000606303R3MA1	3.3	20	100	35	12	6.0
BMRA000606304R7MA1	4.7	20	100	40	9	5.5
BMRA000606305R6MA1	5.6	20	100	40	8	5.5
BMRA000606306R8MA1	6.8	20	100	60	8	4.5
BMRF000606308R2MA1	8.2	20	100	60	6	4.5
BMRF00060630100MA1	10	20	100	68	5.5	4.0
BMRA00060630150MA1	15	20	100	122	5.0	3.0
BMRA00060630220MA1	22	20	100	145	3.2	3.0
BMRA00060630330MA1	33	20	100	270	3.0	2.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

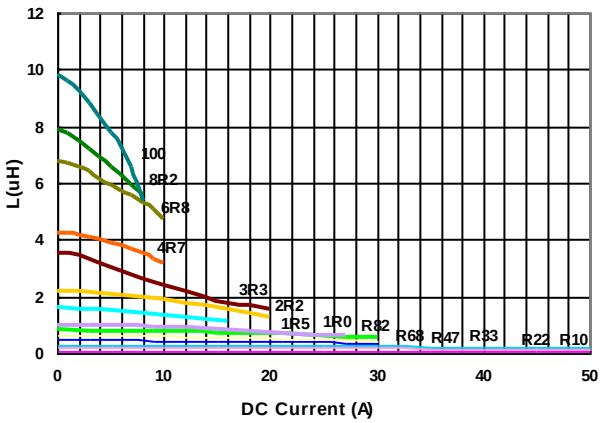
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.5V

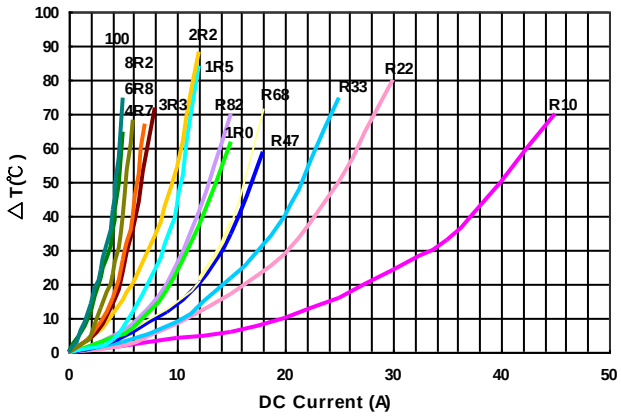
  RDC：CHEN HWA 502 or CHEN HWA 46502B

Test Instruments：WK3260B Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060630R10MA1	0.10	20	100	1.7	60	32.5
BMRB00060630R15MA1	0.15	20	100	2.5	40	30
BMRB00060630R22MA1	0.22	20	100	3.0	34	23
BMRB00060630R33MA1	0.33	20	100	3.5	25	21
BMRB00060630R36MA1	0.36	20	100	3.9	24	20
BMRB00060630R47MA1	0.47	20	100	4.1	20	18
BMRB00060630R56MA1	0.56	20	100	4.5	18	16.5
BMRB00060630R68MA1	0.68	20	100	5.3	17	16
BMRB00060630R82MA1	0.82	20	100	6.0	16	14
BMRB000606301R0MA1	1.0	20	100	7.4	15	12
BMRB000606301R2MA1	1.2	20	100	10	14	10
BMRB000606301R5MA1	1.5	20	100	12.1	14	10
BMRB000606302R2MA1	2.2	20	100	15	10	8
BMRB000606303R3MA1	3.3	20	100	22	9.5	6.5
BMRB000606304R7MA1	4.7	20	100	33	6.5	5.5
BMRB000606305R6MA1	5.6	20	100	42	6	5.5
BMRB000606306R8MA1	6.8	20	100	50	6	4.5
BMRB000606308R2MA1	8.2	20	100	60	6	4.5
BMRB00060630100MA1	10	20	100	68	5.5	4

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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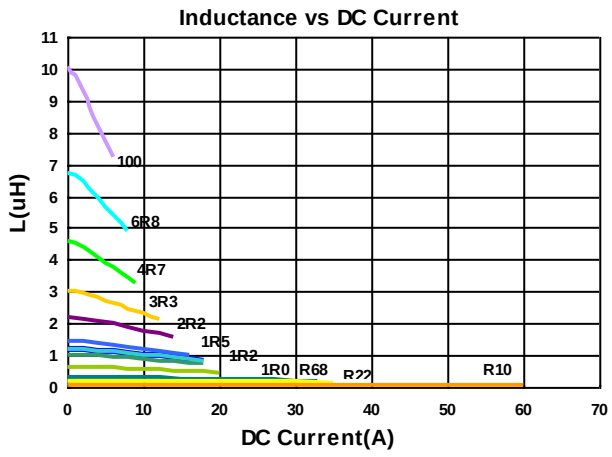
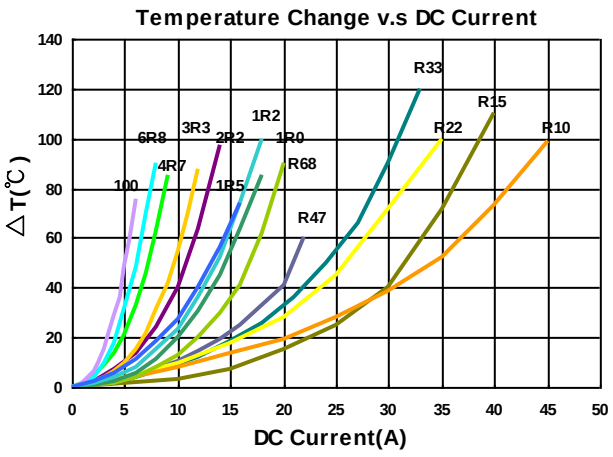
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRB00060650R56MA1	0.56	20	100	3.3	20	20
BMRB000606501R0MA1	1.0	20	100	6.5	15	13
BMRB000606502R2MA1	2.2	20	100	12.5	12	8
BMRB000606503R3MA1	3.3	20	100	20.9	9	7
BMRB000606504R7MA1	4.7	20	100	25.0	7	6.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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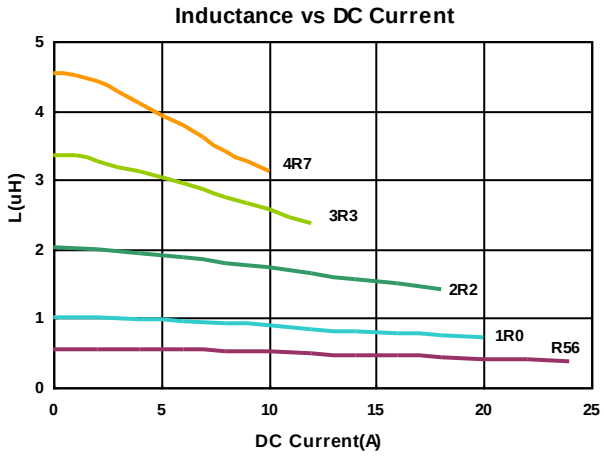

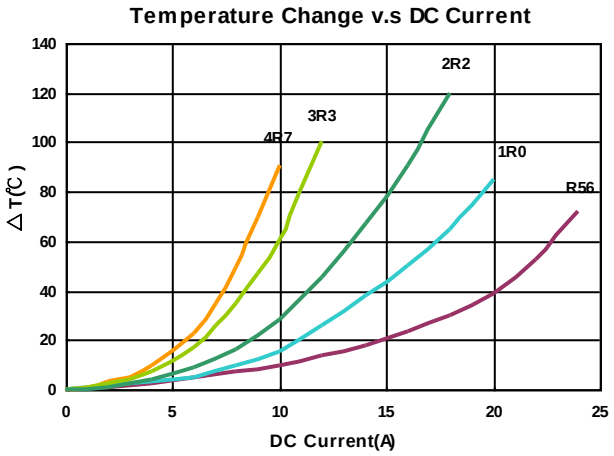

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRG00101030R33MD1	0.33	20	100	1.6	32	23
BMRG001010301R0MD1	1.0	20	100	6.0	21	15
BMRG001010303R3MA1	3.3	20	100	16.0	14	9

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Absolute maximum voltage 30VDC
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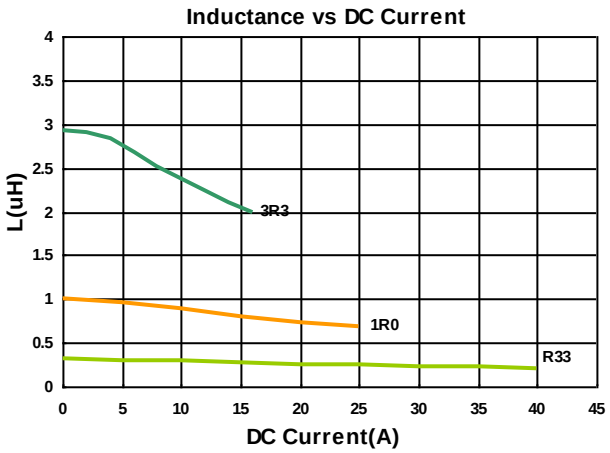

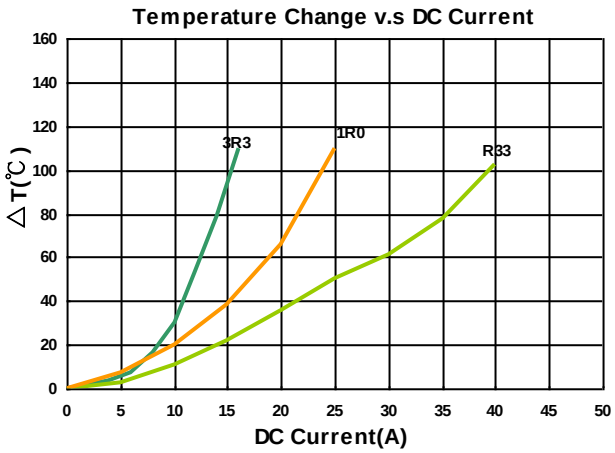

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRF00101040R22MD1	0.22	20	100	0.6	45	35
BMRF00101040R36MD1	0.36	20	100	1.2	42	34
BMRF00101040R45MD1	0.45	20	100	1.2	38	33
BMRF00101040R47MD1	0.47	20	100	1.2	38	33
BMRF00101040R56MD1	0.56	20	100	1.55	32	27
BMRF00101040R68MD1	0.68	20	100	1.55	30	27
BMRF00101040R90MD1	0.9	20	100	3.0	20	22
BMRF001010401R0MD1	1.0	20	100	3.1	26	20
BMRF001010401R5MD1	1.5	20	100	4.2	22	16
BMRF001010401R8MD1	1.8	20	100	5	16	15.3
BMRF001010402R2MD1	2.2	20	100	7	16	14
BMRF001010403R3MA1	3.3	20	100	13.2	12	11
BMRF001010404R7MA1	4.7	20	100	16.5	12	9
BMRF001010406R8MA1	6.8	20	100	25	10	6
BMRF001010408R2MA1	8.2	20	100	30	9	6
BMRF00101040100MA1	10	20	100	30	7	6.5
BMRF00101040150MA1	15	20	100	45	6	6.25
BMRF00101040220MA1	22	20	100	64	4.5	4.5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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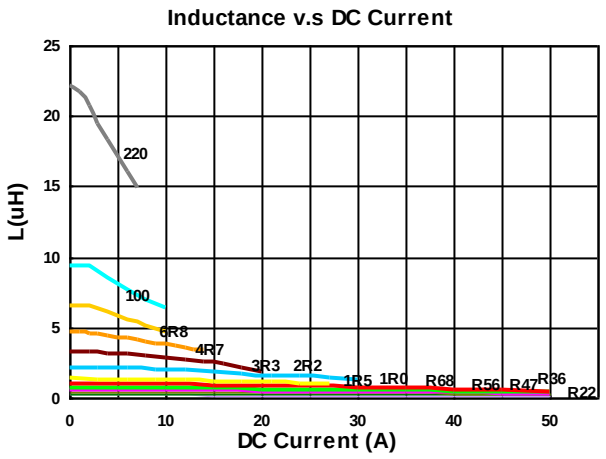
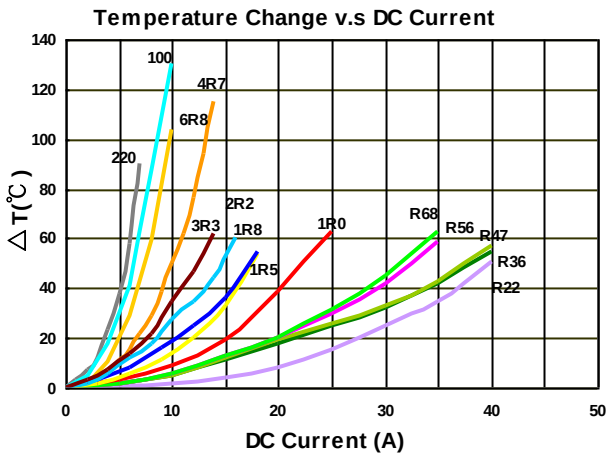
Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.
BMRF00131350R47MD1	0.47	20	100	1.2	46	37
BMRF001313501R0MD1	1.0	20	100	2.5	37	29
BMRF001313501R5MD1	1.5	20	100	3.0	28	28
BMRF001313504R7MD1	4.7	20	100	11.5	16	11
BMRF001313506R8MA1	6.8	20	100	22	14	9
BMRF00131350100MA1	10	20	100	35	13	7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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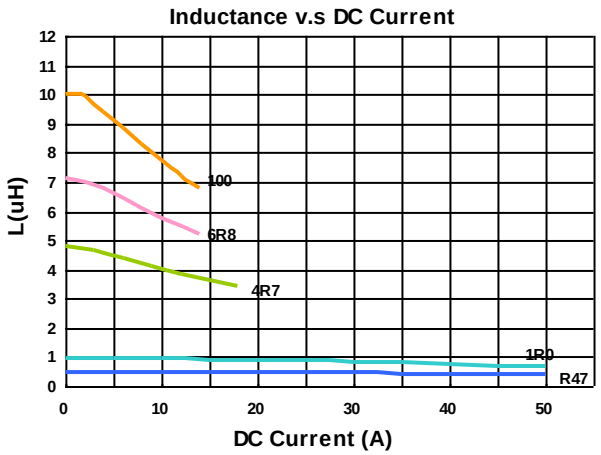

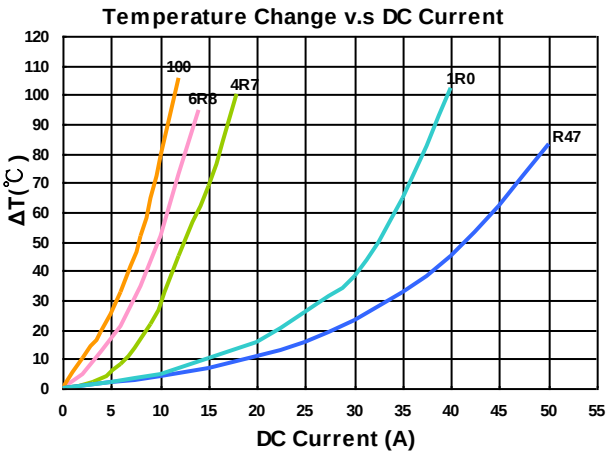

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BMRF001313608R2MA1	8.2	20	100	16(13.5)	13.5(16)	10(11)
BMRF00131360100MA1	10	20	100	20.7(17.7)	11.5(13.5)	9.5(10)
BMRF00131360150MA1	15	20	100	27.5(24)	9(10)	7(8)
BMRF00131360220MA1	22	20	100	39(33)	6.9(7.6)	6.5(7)
BMRF00131360330MA1	33	20	100	70(60)	5.4(6.1)	4.7(5)
BMRF00131360470MA1	47	20	100	88(78)	5.2(5.7)	4(4.5)
BMRF00131360680MA1	68	20	100	140(119.5)	4.7(5.5)	3(3.5)
BMRF00131360101MA1	100	20	100	198(178)	3.5(4)	2.7(3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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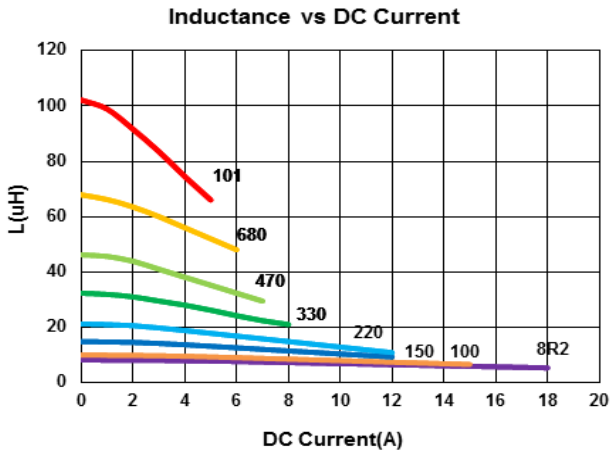

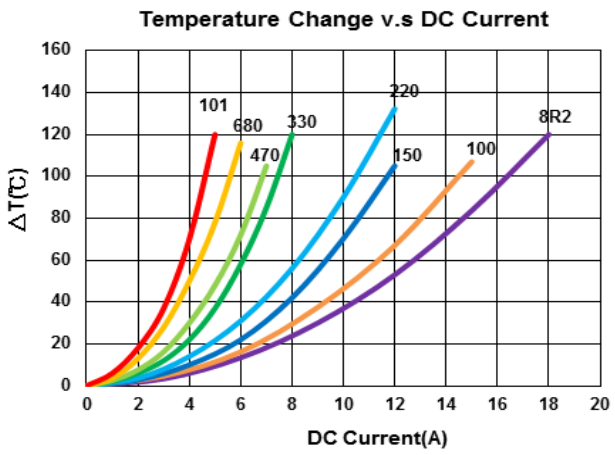

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BMRG00131360100MA1	10	20	100	20.7	12.5	10
BMRG00131360150MA1	15	20	100	29.0	9.0	6.0
BMRG00131360220MA1	22	20	100	39.5	7.5	5.0
BMRG00131360330MA1	33	20	100	75	6.0	4.0

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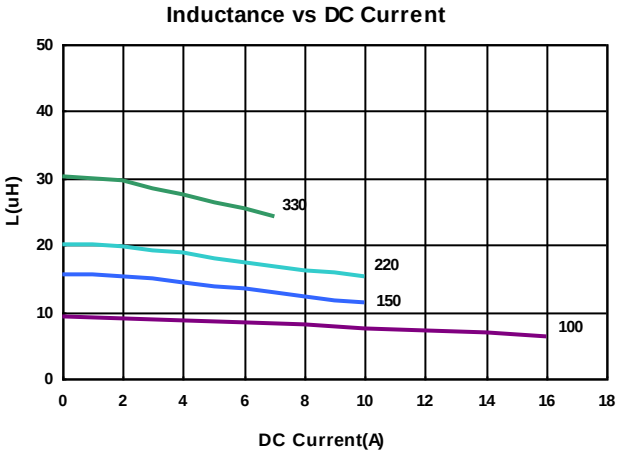

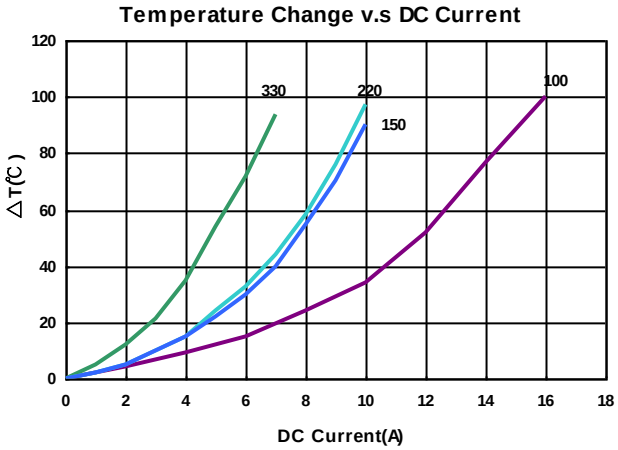

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BMRF001717708R2MB1	8.2	20	100	8.6(8)	20(22)	15(16)
BMRF00171770150MB1	15	20	100	15.3(13.8)	13.5(15.5)	11(12)
BMRF00171770220MB1	22	20	100	23(20)	10.5(12)	8.7(9.7)
BMRF00171770330MB1	33	20	100	37(32)	8.6(10.5)	8(9.2)
BMRF00171770470MB1	47	20	100	47(40)	7.5(8.5)	6(6.8)
BMRF00171770680MB1	68	20	100	85(73)	6.8(8)	4.7(5.2)

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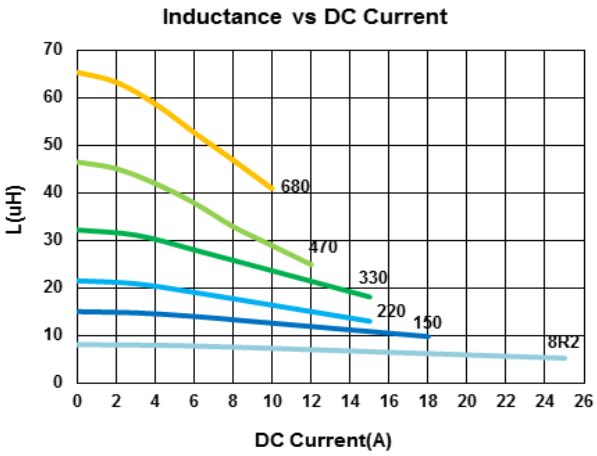

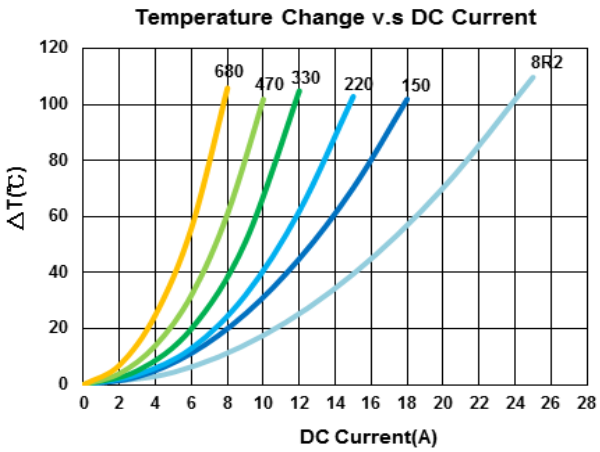

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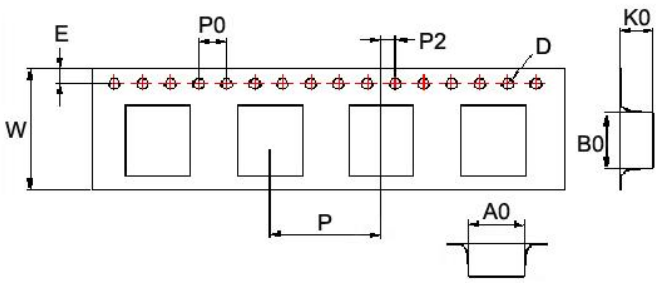
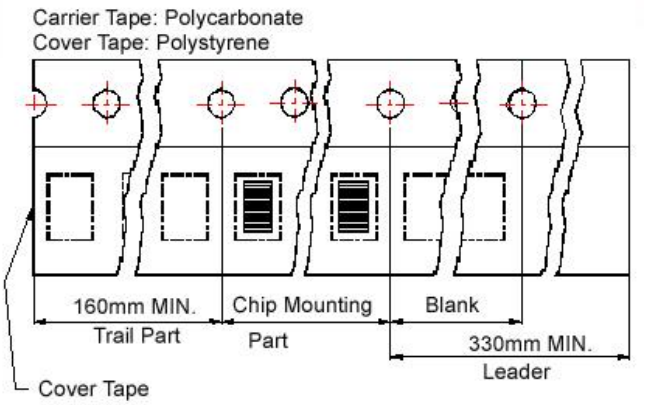
Packaging Specifications

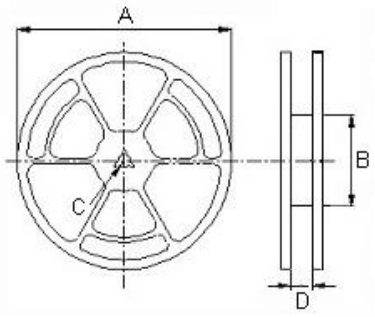
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMRx00040412	4.3	4.9	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRA00040415	4.4	4.9	1.8	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRA00040420	4.3	4.9	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BMRB00050512	5.9	6.2	1.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00050512-B	5.5	6.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMRx00050515	5.7	6.1	1.9	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00050518-B	5.5	6.0	2.2	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMRB00050518	5.9	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRA00050520	5.7	5.9	2.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRA00050530	5.9	6.2	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060612	6.9	7.6	1.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00060615	6.9	7.6	2.1	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060618	6.9	7.6	2.1	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00066024	7.0	7.6	2.7	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRx00060630	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRB00060650	6.9	7.6	5.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMRG00101030	10.6	11.7	3.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00131350	13	14	5.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRx00131360	13	14	6.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BMRF00171770	17.6	18.7	7.25	1.55	1.75	32	24	4	2	330	100	13	32	200

BMBx Series

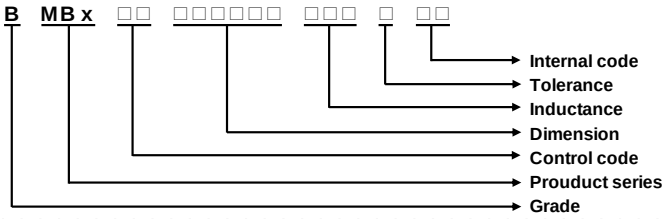
Features

- Operating Temperature up to 125℃
- Halogen Free
- High saturation current

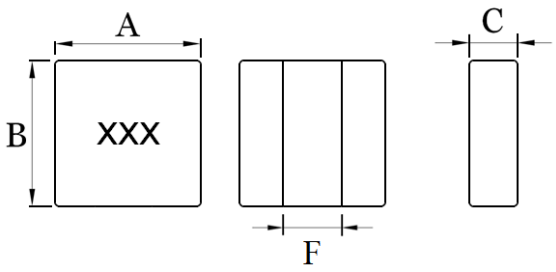
Applications

- High output current DC to DC converter

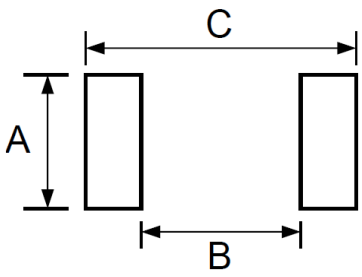
Product Identification



Shape and Dimensions



Recommended Pattern



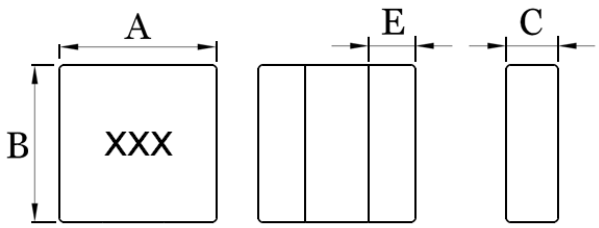
Dimensions in mm

TYPE	A	B	C	F
BMBI00040431	4.0±0.3	4.0±0.3	3.1Max	1.85typ
BMBI00050531	5.28±0.2	5.48±0.2	3.1Max	2.31±0.25
BMBI00060631	6.51±0.2	6.71±0.2	3.1Max	2.79±0.25

Dimensions in mm

TYPE	A	B	C
BMBI00040431	4.5	1.5	4.5
BMBI00050531	5.9	2.13	5.7
BMBI00060631	7.0	2.61	6.8

Shape and Dimensions



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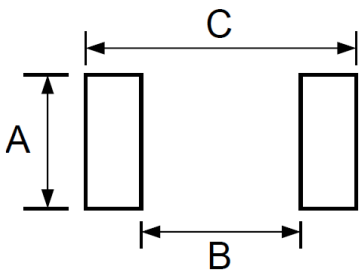

Dimensions in mm

TYPE	A	B	C	E
BMBI00070717	7.8±0.2	7.8±0.2	1.7Max	2.6±0.2
BMBA00070717	7.8±0.2	7.8±0.2	1.7Max	2.6±0.2

Dimensions in mm

TYPE	A	B	C
BMBI00070717	8.2	2.2	8.2
BMBA00070717	8.2	2.2	8.2

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Pulse a YAGEO company

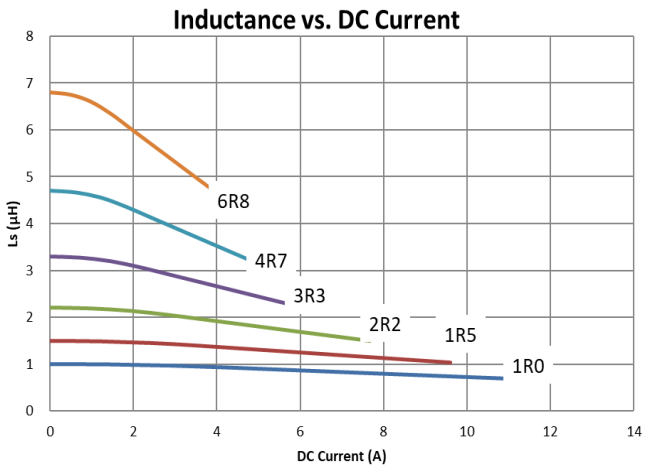
CHILISIN ELECTRONICS CORP.

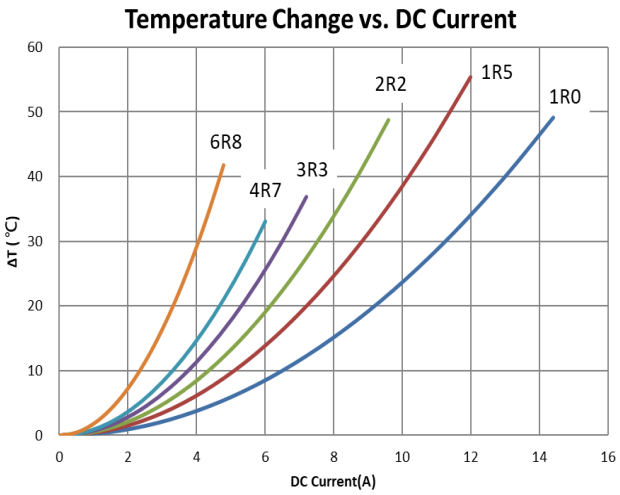
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000404311R0MXL	1.0	20	100/0.25V	7.2	10.3	13	1R0
BMBI000404311R5MXL	1.5	20	100/0.25V	10.5	8.8	10.2	1R5
BMBI000404312R2MXL	2.2	20	100/0.25V	15	7	8.7	2R2
BMBI000404313R3MXL	3.3	20	100/0.25V	21.9	5.3	7.5	3R3
BMBI000404314R7MXL	4.7	20	100/0.25V	31.5	4.4	6.6	4R7
BMBI000404316R8MXL	6.8	20	100/0.25V	47.9	3.65	4.7	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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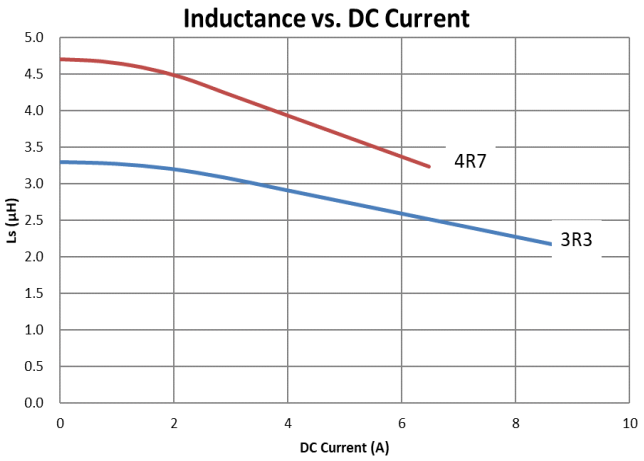
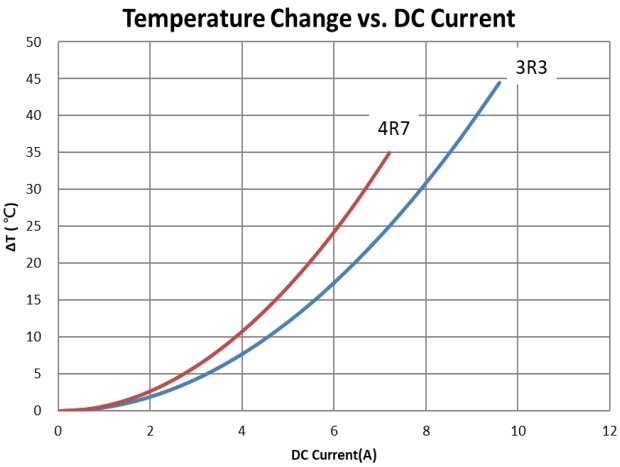
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000505313R3MXL	3.3	20	100/0.25V	18.5	7.4	9.1	3R3
BMBI000505314R7MXL	4.7	20	100/0.25V	27	6	7.7	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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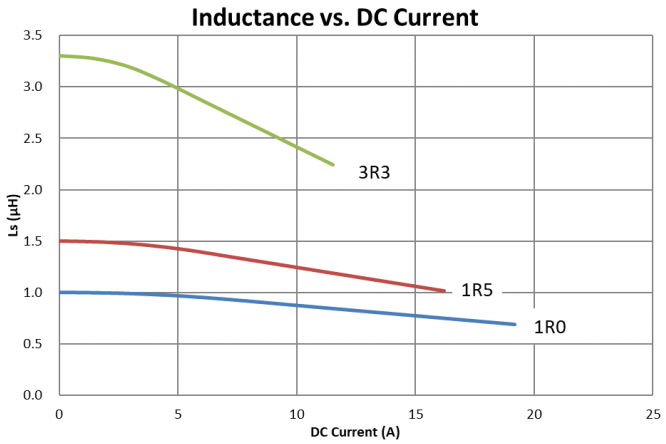
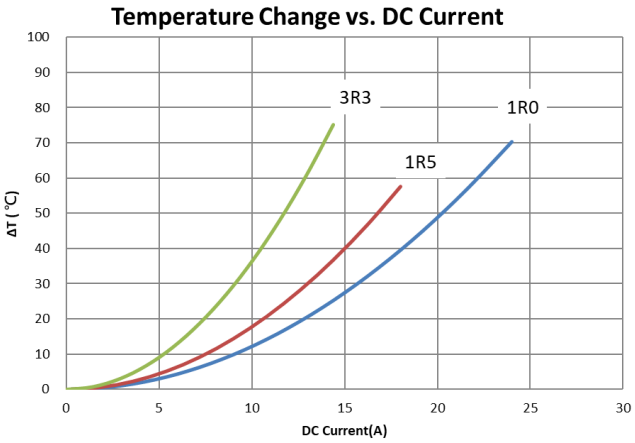
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI000606311R0MXL	1.0	20	100/0.25V	4.9	17.7	18.1	1R0
BMBI000606311R5MXL	1.5	20	100/0.25V	7.3	14.5	15	1R5
BMBI000606313R3MXL	3.3	20	100/0.25V	15.4	10.4	10.5	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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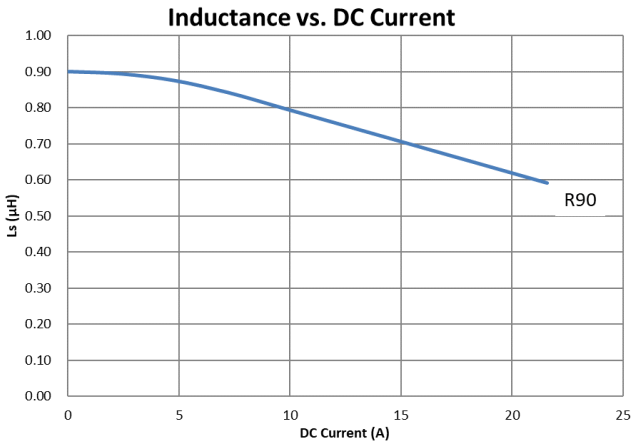
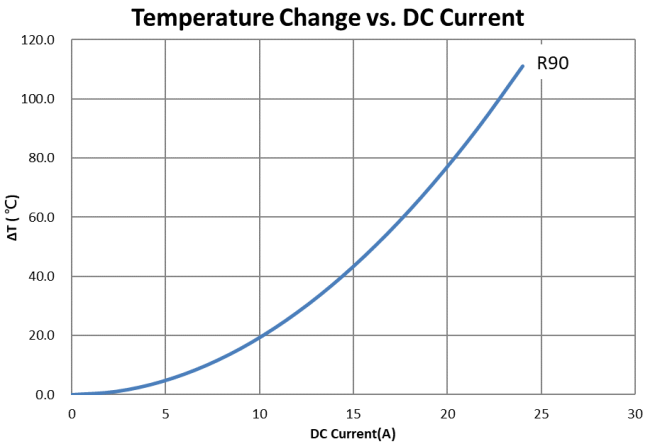
Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBI00070717R90MR1	0.9	20	100/0.25V	9	18.5	14.4	R90

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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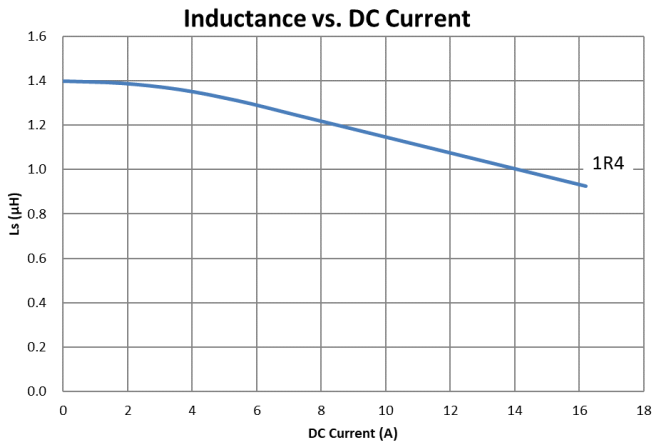
CHILISIN ELECTRONICS CORP.

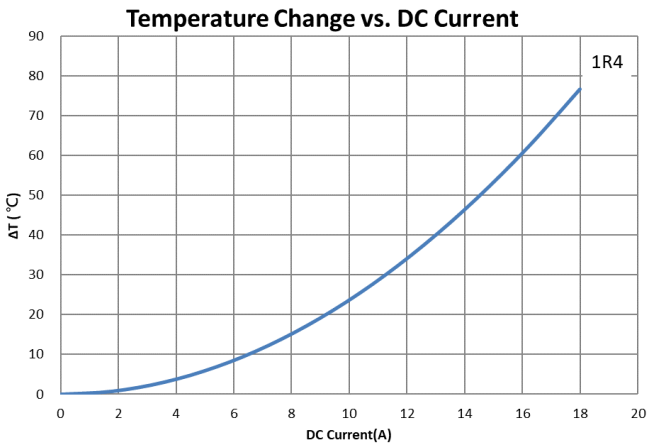
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMBA000707171R4MR2	1.4	20	100/0.25V	10.8	14	13	1R4

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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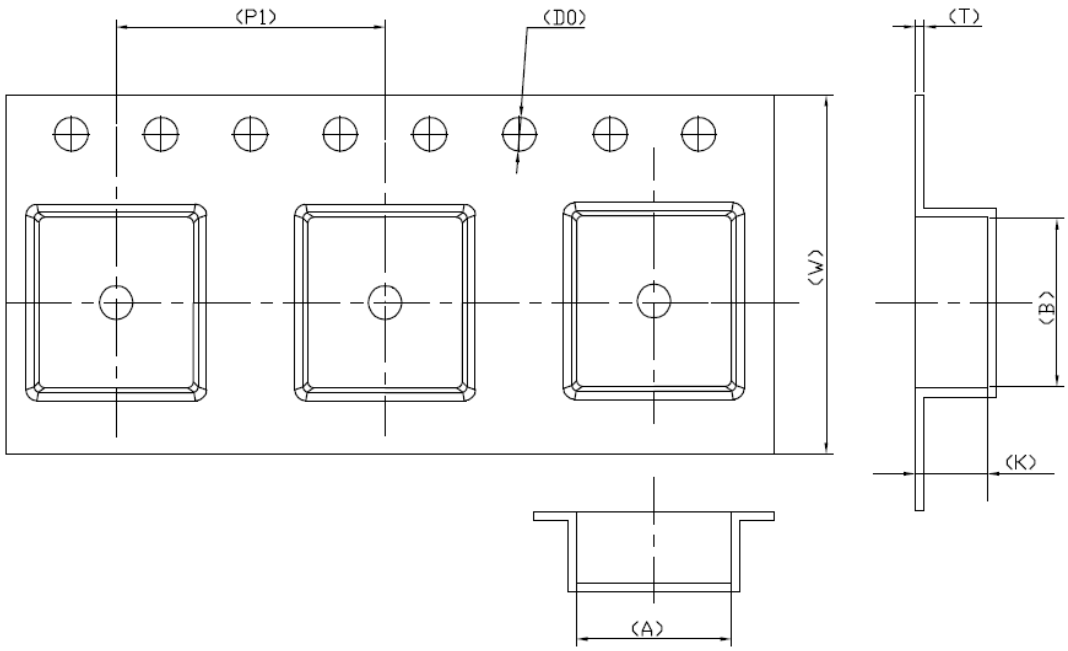
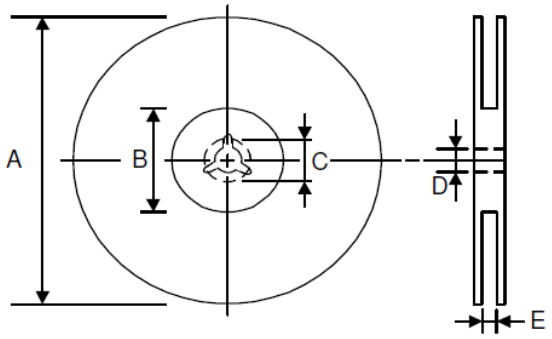
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions					Quantity
	A	B	K	D0	W	T	P1	A	B	C	D	E	PCS / REEL
BMBI00040431	4.3	4.4	3.5	1.5	12	0.35	8	330	100	21.5	13	12.4	2000
BMBI00050531	6.1	5.9	3.3	1.5	12	0.35	8	330	100	21.5	13	12.4	1000
BMBI00060631	6.8	6.56	3.4	1.5	16	0.35	12	330	100	21.5	13	16.4	1000
BMBI00070717	8.15	8.15	1.9	1.5	16	0.3	12	330	100	21.5	13	16.4	1000
BMBA00070717	8.15	8.15	1.9	1.5	16	0.3	12	330	100	21.5	13	16.4	1000

BMII Series

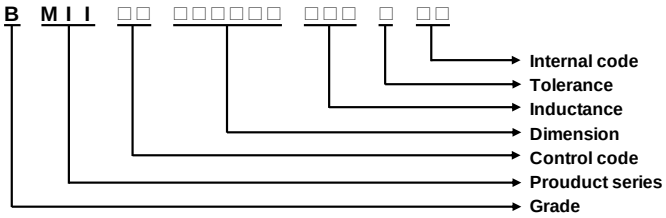
Features

- Operating Temperature up to 125℃
- Halogen Free
- High saturation current

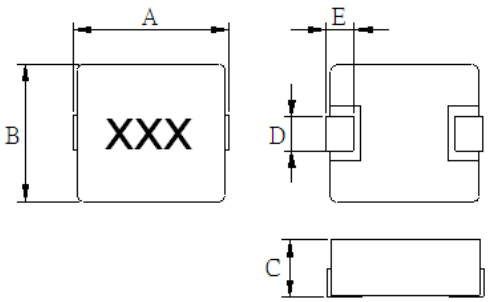
Applications

- High output current DC to DC converte

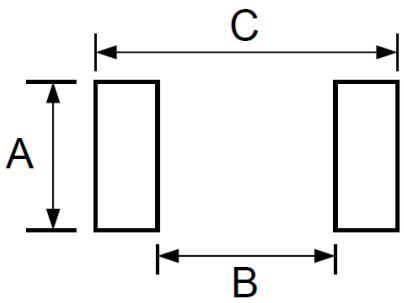
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BMII00050530	5.4±0.35	5.25±0.2	3.0Max	3.0±0.3	1.1±0.3

Dimensions in mm

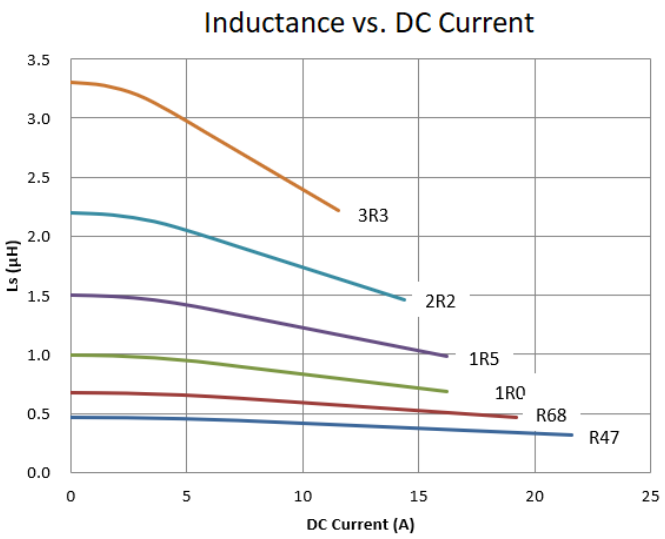
TYPE	A	B	C
BMII00050530	3.6	2.2	7.2

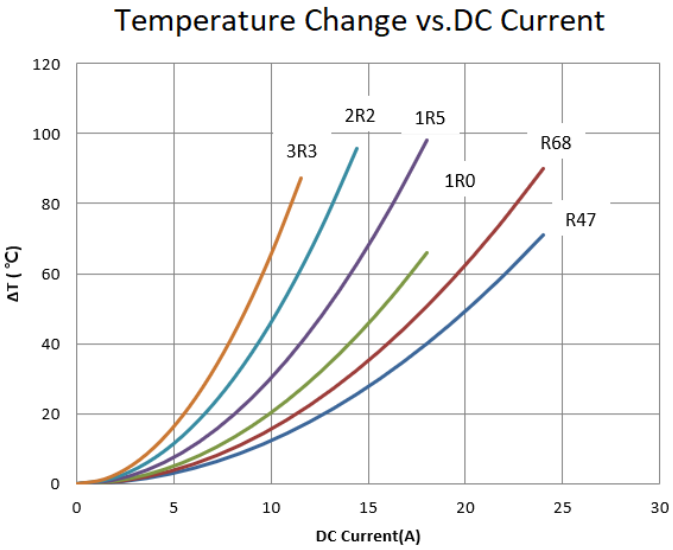
Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BMII00050530R47MQX	0.47	20	100/0.25V	4	19.8	18	R47
BMII00050530R68MQX	0.68	20	100/0.25V	5.2	18	16	R68
BMII000505301R0MQX	1.0	20	100/0.25V	6.8	15	14	1R0
BMII000505301R5MQX	1.5	20	100/0.25V	10	13.8	11.5	1R5
BMII000505302R2MQX	2.2	20	100/0.25V	14.8	12.6	9.3	2R2
BMII000505303R3MQX	3.3	20	100/0.25V	21.7	10.2	7.8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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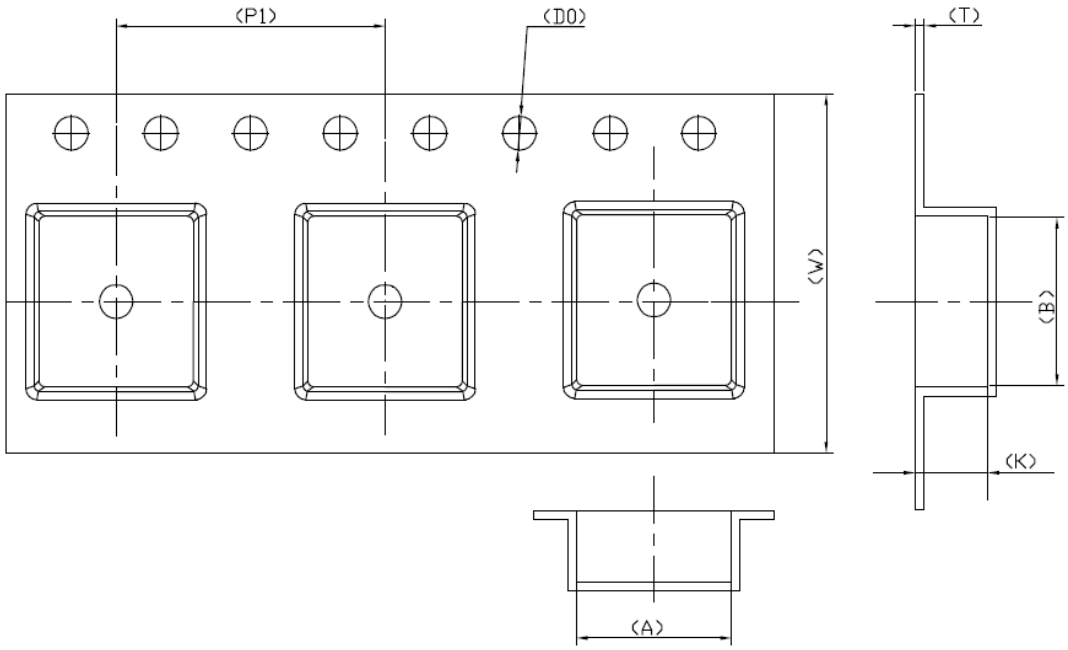
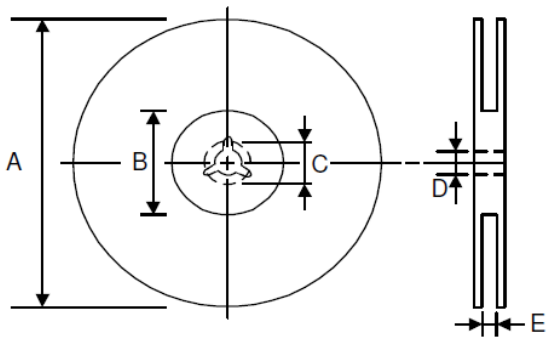
Pulse a YAGEO company
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions					Quantity
	A	B	K	D0	W	T	P1	A	B	C	D	E	PCS / REEL
BMII050530	5.5	6	3.3	1.5	12	0.35	8	330	100	21.5	13	12.4	1000

BDCD Series

BDCD Series provides high current in compact package size with magnetically shielded construction. This power
inductor is an excellent power solution for space-limited devices.

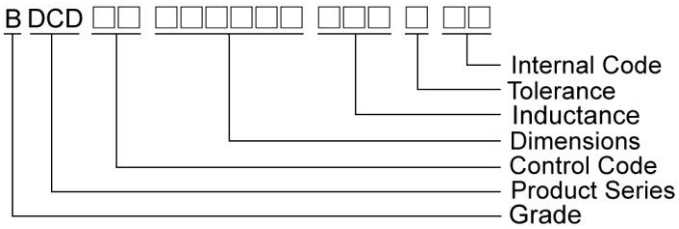
Features

- RoHS, Halogen Free and REACH Compliance
- Monolithic, magnetically shielded
- Capable for large current

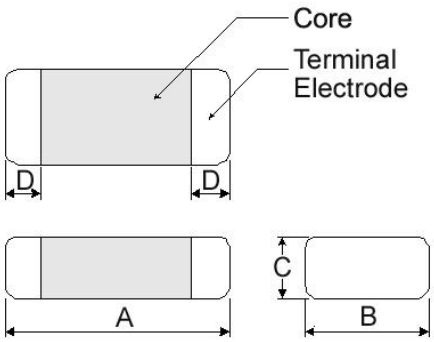
Applications

- Smartphones, tablets and wearable devices
- HDD, SSD and PC peripheral devices
- DSC, camcoders
- PND
- DC/DC converters

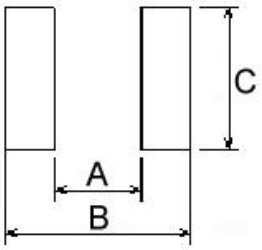
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDCD00201610	2.0±0.2	1.6±0.2	1.0Max	0.5±0.3
BDCD00201612	2.0±0.2	1.6±0.2	1.2Max	0.5±0.3
BDCD00252010	2.5±0.2	2.0±0.2	1.0Max	0.6±0.3
BDCD00252012	2.5±0.2	2.0±0.2	1.2Max	0.6±0.3
BDCD00322510	3.2±0.3	2.5±0.3	1.0Max	0.5±0.3
BDCD00322512	3.2±0.3	2.5±0.3	1.2Max	0.5±0.3

Dimensions in mm

TYPE	A	B	C
BDCD00201610	0.7	2.3	1.8
BDCD00201612	0.7	2.3	1.8
BDCD00252010	1.2	2.8	2.3
BDCD00252012	1.2	2.8	2.3
BDCD00322510	1.7	3.5	2.8
BDCD00322512	1.7	3.5	2.8

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201610R24MS1	0.24	20	2	40(28)	4.2(6.0)	4.0(4.5)
BDCD00201610R33MS1	0.33	20	2	48(40)	4.0(5.5)	3.5(3.8)
BDCD00201610R47MS1	0.47	20	2	54(44)	3.2(5.0)	3.0(3.6)
BDCD00201610R56MS1	0.56	20	2	59(46)	2.8(4.6)	2.8(3.3)
BDCD00201610R68MS1	0.68	20	2	72(55)	2.7(4.2)	2.4(3.0)
BDCD002016101R0MS1	1.0	20	2	96(81)	2.2(3.4)	2.0(2.3)
BDCD002016101R5MS1	1.5	20	2	150(122)	2.1(2.8)	1.6(2.0)
BDCD002016102R2MS1	2.2	20	2	204(170)	2.0(2.4)	1.3(1.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

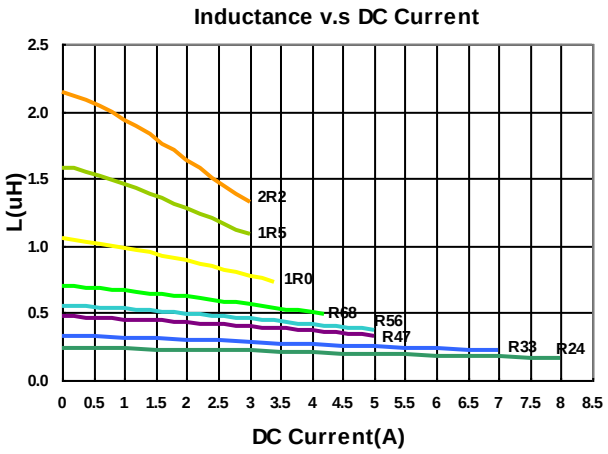
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

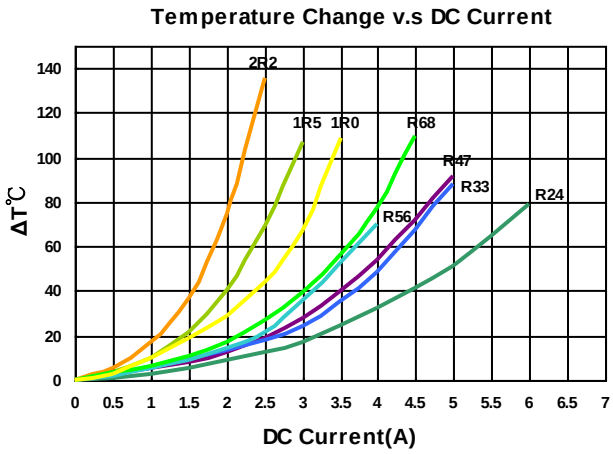
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201610R24ML1	0.24	20	2	30(23)	5.0(6.0)	3.8(4.4)
BDCD00201610R33ML1	0.33	20	2	35(27)	4.5(5.0)	3.4(3.8)
BDCD00201610R47ML1	0.47	20	2	41(34)	4.0(4.5)	2.9(3.3)
BDCD00201610R68ML1	0.68	20	2	53(44)	3.3(3.6)	2.5(2.9)
BDCD002016101R0ML1	1.0	20	2	72(60)	2.8(3.2)	2.2(2.5)
BDCD002016101R5ML1	1.5	20	2	110(92)	2.2(2.8)	1.8(2.1)
BDCD002016102R2ML1	2.2	20	2	170(142)	1.8(2.1)	1.5(1.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

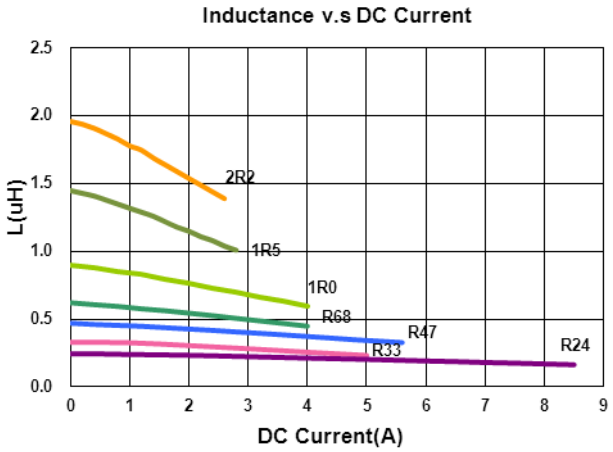
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

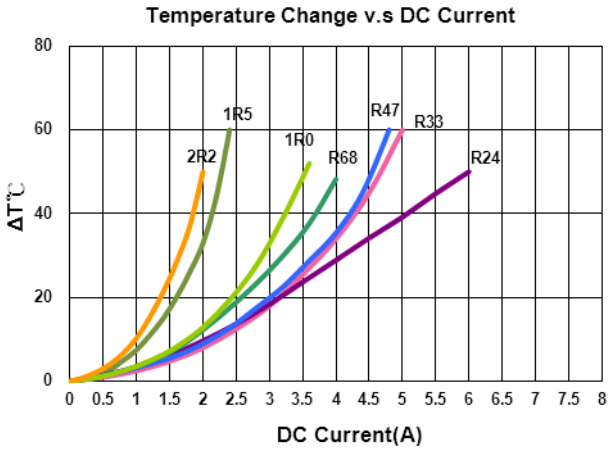
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00201612R24MS1	0.24	20	2	35(25)	5.5(6.5)	4.2(4.8)
BDCD00201612R47MS1	0.47	20	2	52(40)	3.8(5.1)	3.2(3.8)
BDCD00201612R68MS1	0.68	20	2	70(53)	3.3(4.8)	2.6(3.2)
BDCD002016121R0MS1	1.0	20	2	82(67)	3.1(3.9)	2.3(2.7)
BDCD002016121R5MS1	1.5	20	2	120(95)	2.6(3.2)	2.2(2.6)
BDCD002016122R2MS1	2.2	20	2	195(165)	2.0(2.6)	1.3(1.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

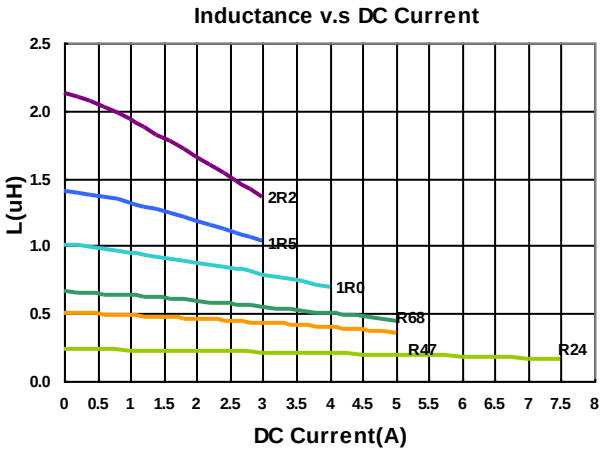
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

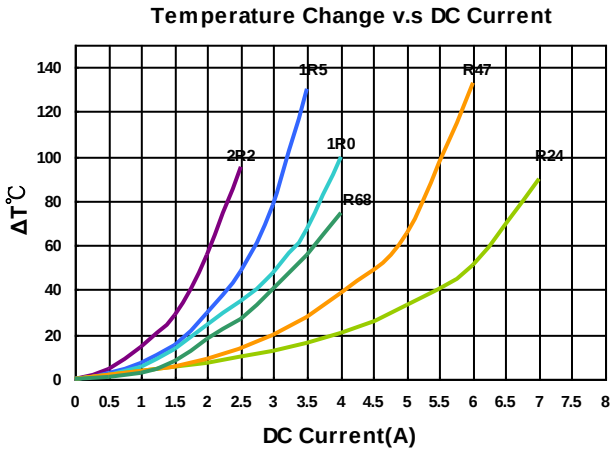
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252010R24MS1	0.24	20	2	40(24)	7.5(9.5)	4.5(5.0)
BDCD00252010R47MS1	0.47	20	2	46(36)	5.2(6.5)	3.1(3.6)
BDCD00252010R68MS1	0.68	20	2	65(49)	3.8(5.0)	2.9(3.3)
BDCD002520101R0MS1	1.0	20	2	78(60)	3.4(4.3)	2.5(3.0)
BDCD002520101R5MS1	1.5	20	2	105(82)	3.2(4.0)	2.2(2.9)
BDCD002520102R2MS1	2.2	20	2	156(130)	2.6(3.2)	1.4(1.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

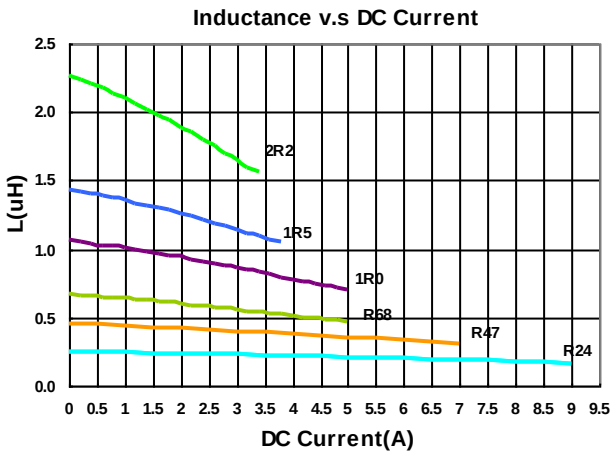
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

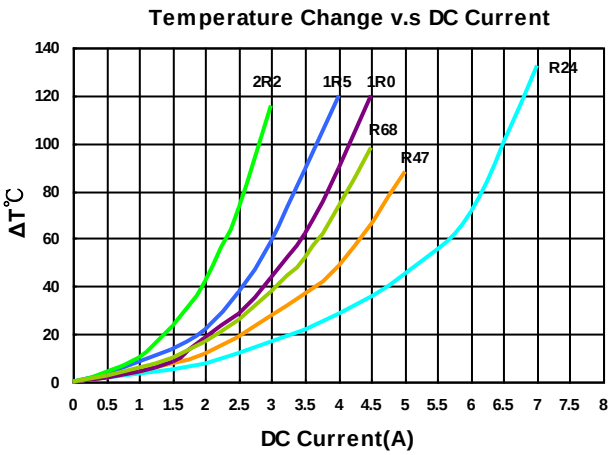
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252010R33ML1	0.33	20	2	31(25)	5.0(6.0)	3.8(4.4)
BDCD00252010R47ML1	0.47	20	2	35(29)	4.2(4.7)	3.4(3.9)
BDCD00252010R68ML1	0.68	20	2	48(40)	3.7(4.0)	3.0(3.5)
BDCD002520101R0ML1	1.0	20	2	65(54)	3.2(3.6)	2.6(3.0)
BDCD002520101R5ML1	1.5	20	2	94(78)	2.9(3.3)	2.1(2.4)
BDCD002520102R2ML1	2.2	20	2	120(100)	2.3(2.7)	1.8(2.1)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

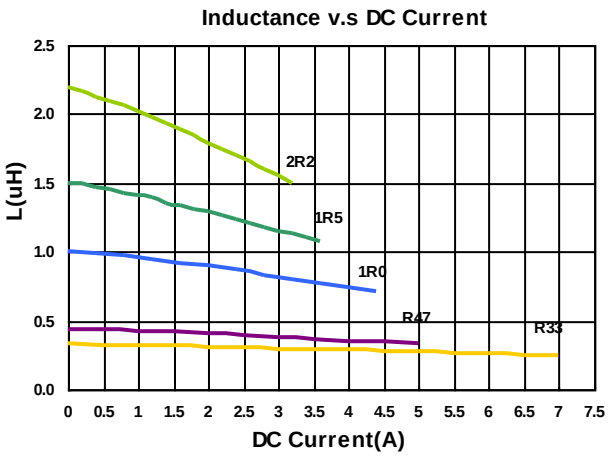
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

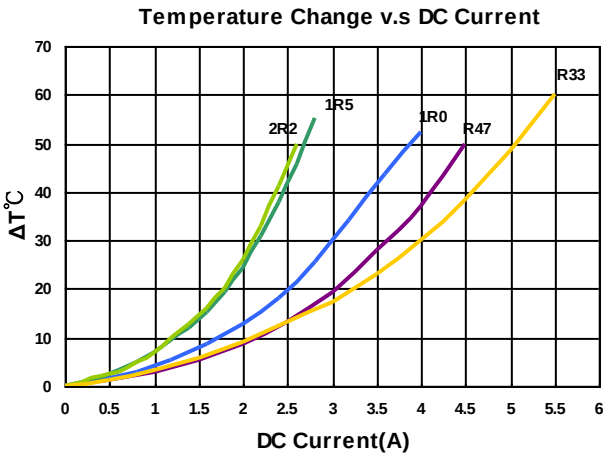
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252012R33MS1	0.33	20	2	35(27)	6.8(8.5)	4.0(4.6)
BDCD00252012R47MS1	0.47	20	2	39(29)	6.2(7.8)	3.7(4.4)
BDCD00252012R68MS1	0.68	20	2	46(40)	5.5(6.5)	3.3(3.7)
BDCD002520121R0MS1	1.0	20	2	59(45)	4.0(5.0)	3.0(3.5)
BDCD002520121R5MS1	1.5	20	2	70(62)	3.4(4.0)	2.5(2.7)
BDCD002520122R2MS1	2.2	20	2	115(102)	3.3(3.8)	2.0(2.3)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

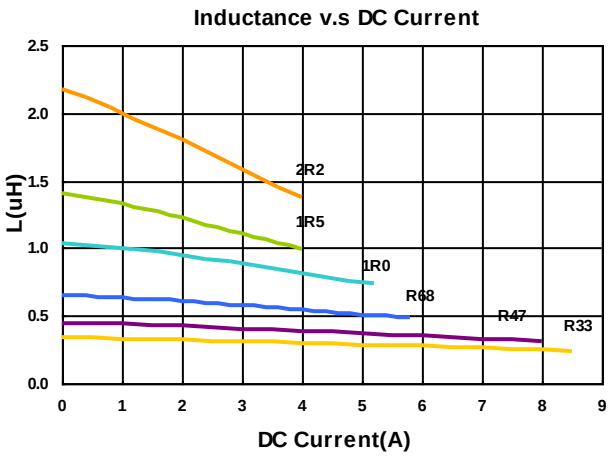
  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

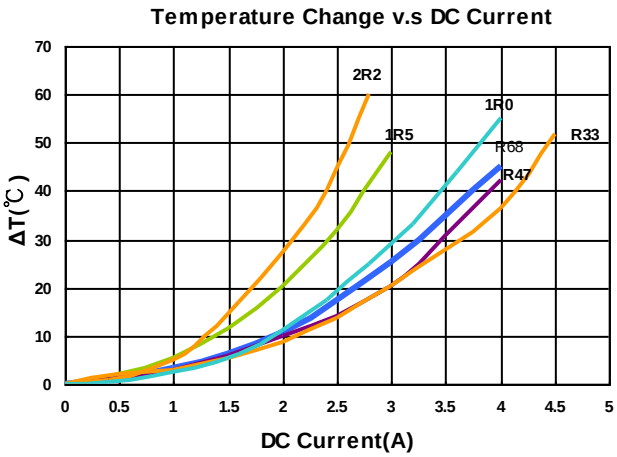
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00252012R47ML1	0.47	20	2	34(30)	5.2(6.0)	4.1(4.7)
BDCD002520121R0ML1	1.0	20	2	56(45)	3.6(4.5)	3.2(3.7)
BDCD002520122R2ML1	2.2	20	2	102(80)	2.5(3.0)	2.2(2.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

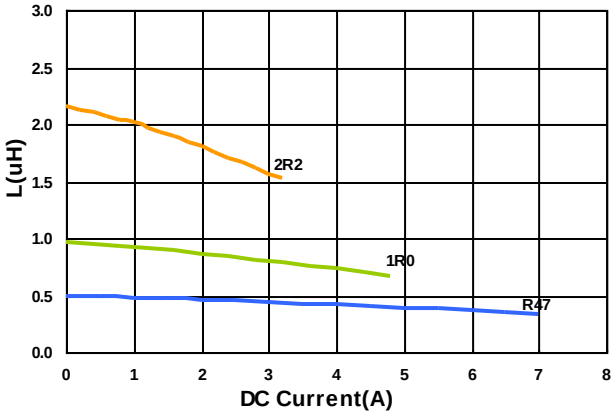
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

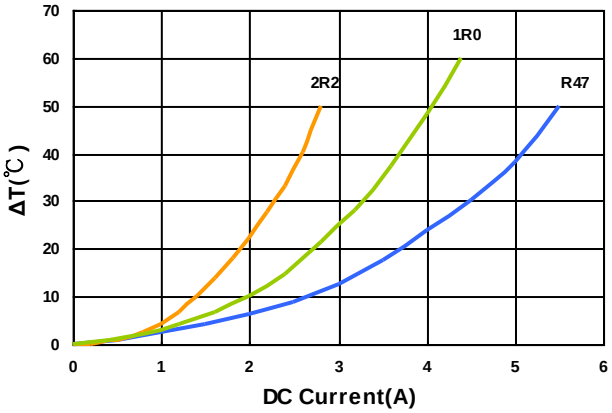
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00322510R47MS1	0.47	20	2	37(30)	5.8(6.6)	3.6(4.2)
BDCD003225101R0MS1	1.0	20	2	56(49)	4.0(4.6)	3.0(3.3)
BDCD003225101R5MS1	1.5	20	2	75(66)	3.4(4.0)	2.6(3.0)
BDCD003225102R2MS1	2.2	20	2	108(95)	2.7(3.2)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

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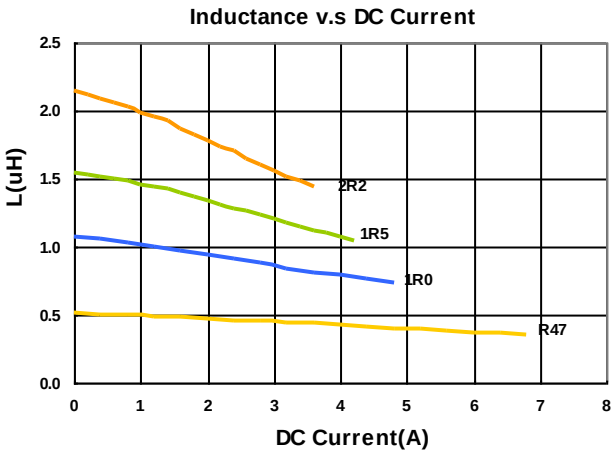
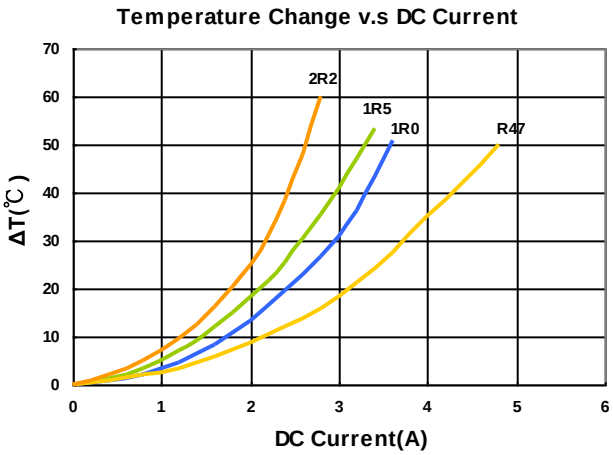
Test Instruments：E4991A Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDCD00322512R47MS1	0.47	20	2	27(21)	8.0(9.0)	5.0(5.8)
BDCD00322512R68MS1	0.68	20	2	34(26)	6.3(7.5)	4.0(4.6)
BDCD003225121R0MS1	1.0	20	2	42(34)	5.8(6.3)	3.8(4.2)
BDCD003225121R5MS1	1.5	20	2	68(58)	4.0(4.5)	2.8(3.2)
BDCD003225122R2MS1	2.2	20	2	85(75)	3.6(4.0)	2.4(2.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC
- Measure Equipment：

  L：Agilent E4991/HP4286A+16197A (or equivalent), 2MHz

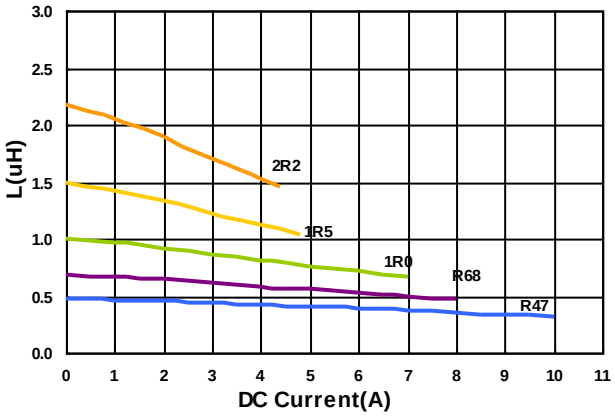
  RDC：CHEN HWA502BC/HP4338B (or equivalent)

  Isat：Agilent E4980A+HP42841A (or equivalent)

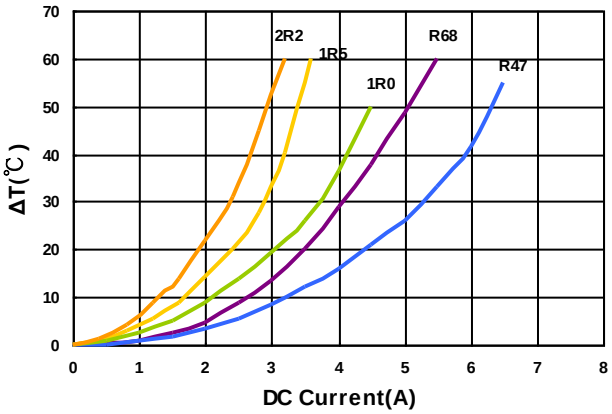
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)

Test Instruments：E4991A Impedance / Material Analyzer

Inductance v.s DC Current



Temperature Change v.s DC Current



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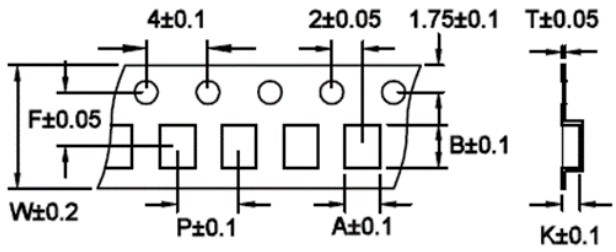
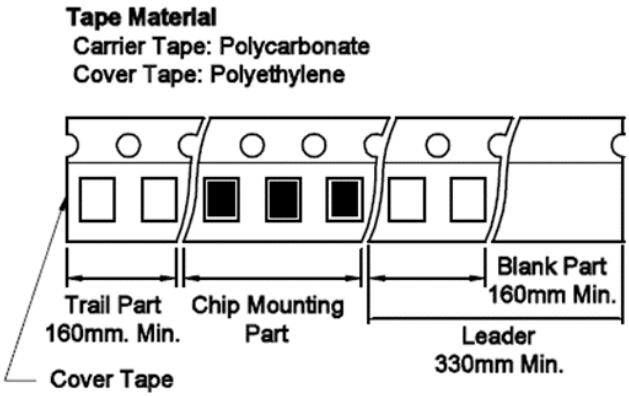
Packaging Specifications

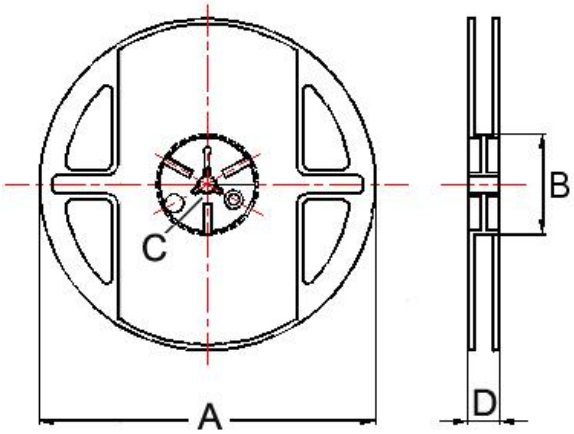
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDCD00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00201612	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00252010	2.25	2.80	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDCD00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BDCD00322510	2.80	3.55	0.23	8	4	3.5	1.20	178	60	12	1.5	3000
BDCD00322512	2.80	3.50	0.23	8	4	3.5	1.34	178	60	12	1.5	3000

BDAA Series

The BDAA Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

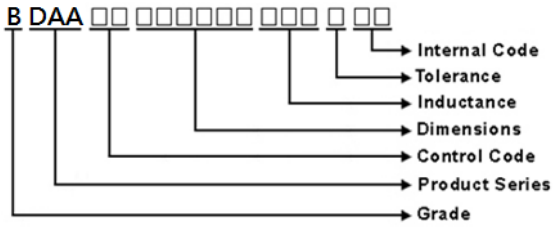
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*1.0mm

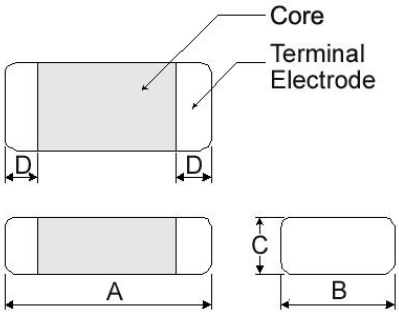
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

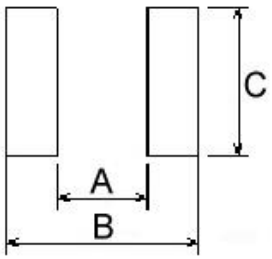
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDAA00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDAA00201612	2.0±0.2	1.60±0.2	1.2Max	0.5±0.3
BDAA00252010	2.5±0.2	2.00±0.2	1.0Max	0.6±0.3
BDAA00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3
BDAA00322510	3.2±0.3	2.50±0.3	1.0Max	0.6±0.3
BDAA00322512	3.2±0.3	2.50±0.3	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDAA00201610	0.7	2.3	1.8
BDAA00201612	0.7	2.3	1.8
BDAA00252010	1.2	2.8	2.3
BDAA00252012	1.2	2.8	2.3
BDAA00322510	1.7	3.5	2.8
BDAA00322512	1.7	3.5	2.8

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00201610R24MC1	0.24	20	2	27(21)	5.6(7.0)	4.6(5.3)
BDAA00201610R47MC1	0.47	20	2	34(28)	5.1(5.8)	4.5(5.0)
BDAA00201610R68MC1	0.68	20	2	43(38)	4.0(4.5)	3.1(3.7)
BDAA002016101R0MC1	1.0	20	2	62(53)	3.0(3.8)	2.7(3.4)
BDAA002016101R5MC1	1.5	20	2	85(75)	2.5(2.8)	2.3(2.7)
BDAA002016102R2MC1	2.2	20	2	135(112)	2.4(2.7)	1.8(2.2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

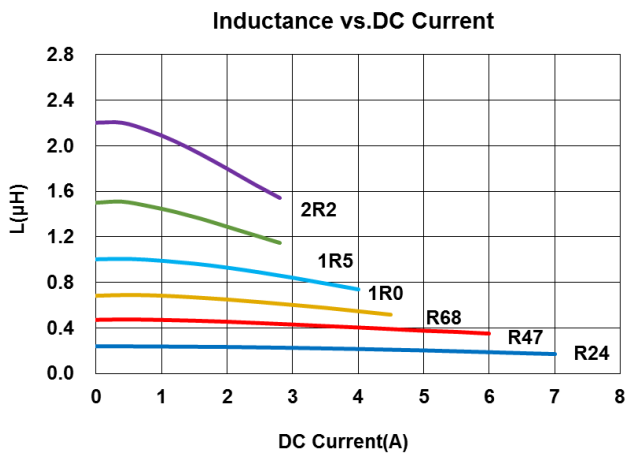
Test Instruments：

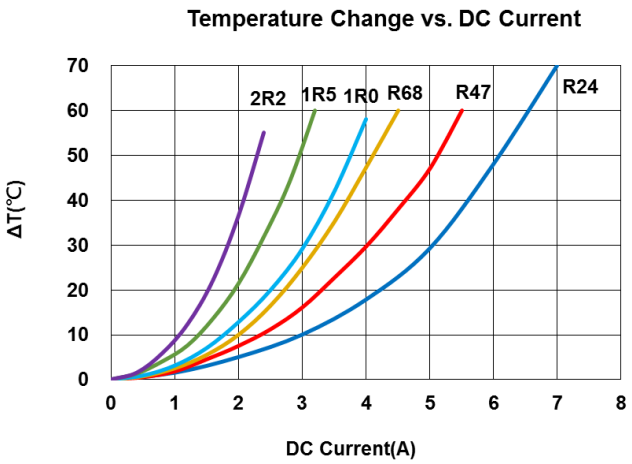
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00201612R47MC1	0.47	20	2	26(20)	5.5(5.8)	4.5(4.7)
BDAA002016121R0MC1	1.0	20	2	52(43)	3.2(3.8)	3.0(3.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

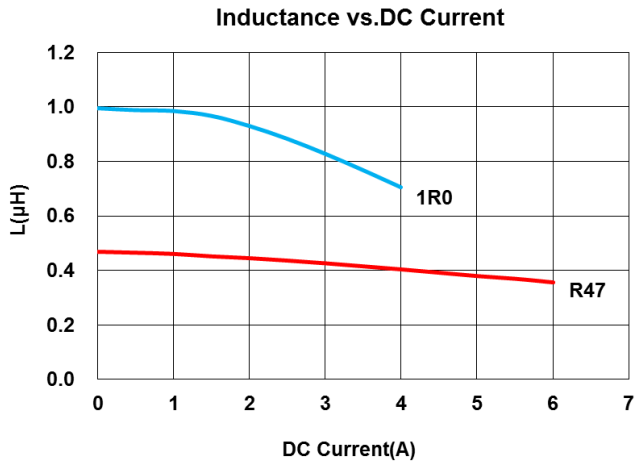
Test Instruments：

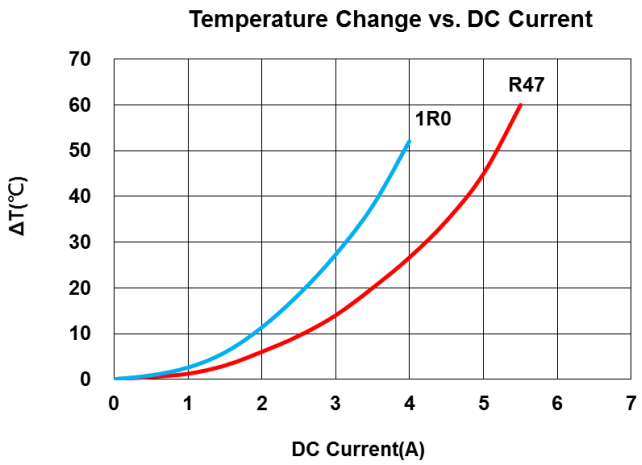
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00252010R24MC1	0.24	20	2	18(13)	8.0(9.5)	5.5(6.5)
BDAA00252010R33MC1	0.33	20	2	24(18)	6.5(8.0)	4.8(5.5)
BDAA00252010R47MC1	0.47	20	2	35(27)	5.0(6.2)	3.9(4.5)
BDAA00252010R68MC1	0.68	20	2	40(32)	4.5(5.6)	3.7(4.2)
BDAA002520101R0MC1	1.0	20	2	48(40)	4.1(4.6)	3.5(4.0)
BDAA002520101R5MC1	1.5	20	2	75(68)	3.1(3.8)	2.4(2.8)
BDAA002520102R2MC1	2.2	20	2	97(87)	2.5(3.0)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

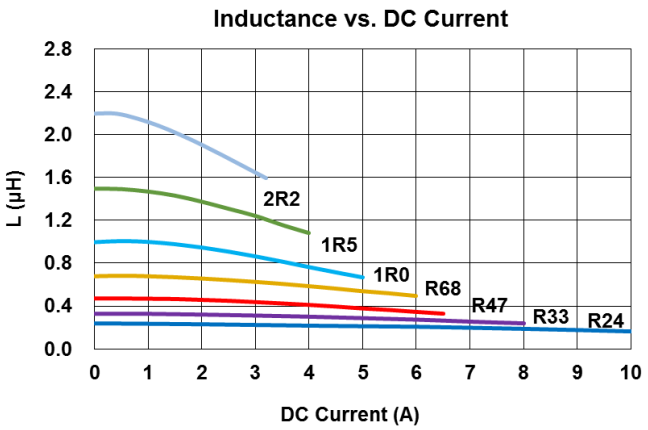
Test Instruments：

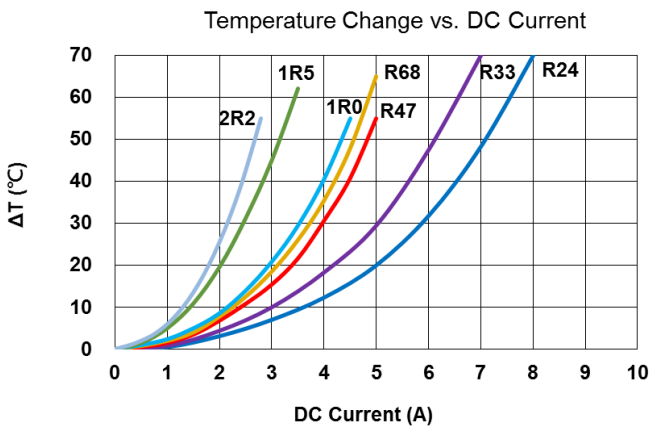
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00252012R24MC1	0.24	20	2	15(11)	9.0(10.5)	6.2(7.3)
BDAA00252012R33MC1	0.33	20	2	18(15)	8.5(10.0)	5.8(6.4)
BDAA00252012R47MC1	0.47	20	2	33(28)	5.6(7.0)	3.8(4.5)
BDAA00252012R68MC1	0.68	20	2	36(30)	5.0(6.2)	3.7(4.4)
BDAA002520121R0MC1	1.0	20	2	42(35)	4.4(5.5)	3.6(4.1)
BDAA002520121R5MC1	1.5	20	2	59(52)	3.4(4.2)	2.7(3.1)
BDAA002520122R2MC1	2.2	20	2	86(80)	2.9(3.5)	2.5(2.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

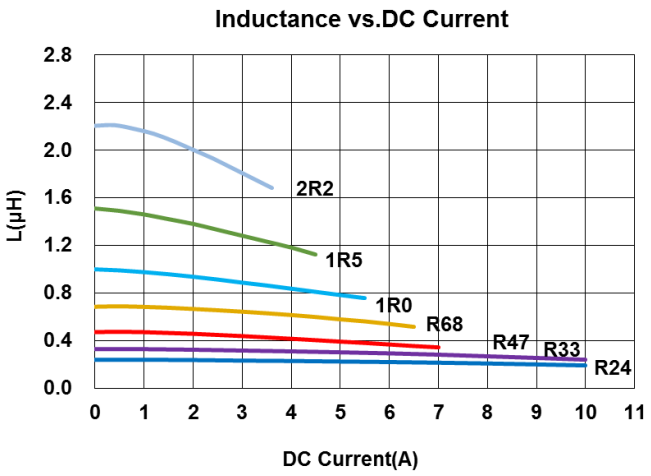
Test Instruments：

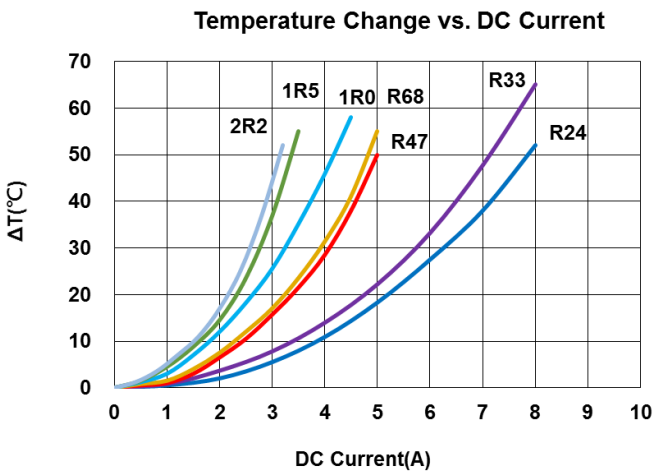
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00322510R24MC1	0.24	20	2	16(12)	9.0(11.5)	6.0(6.8)
BDAA00322510R33MC1	0.33	20	2	17(13)	8.0(9.5)	5.8(6.5)
BDAA00322510R47MC1	0.47	20	2	24(19)	6.0(7.3)	4.5(5.4)
BDAA003225101R0MC1	1.0	20	2	46(39)	4.1(4.7)	3.3(3.7)
BDAA003225101R5MC1	1.5	20	2	58(50)	3.5(4.0)	3.2(3.5)
BDAA003225102R2MC1	2.2	20	2	85(73)	3.0(3.5)	2.5(2.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

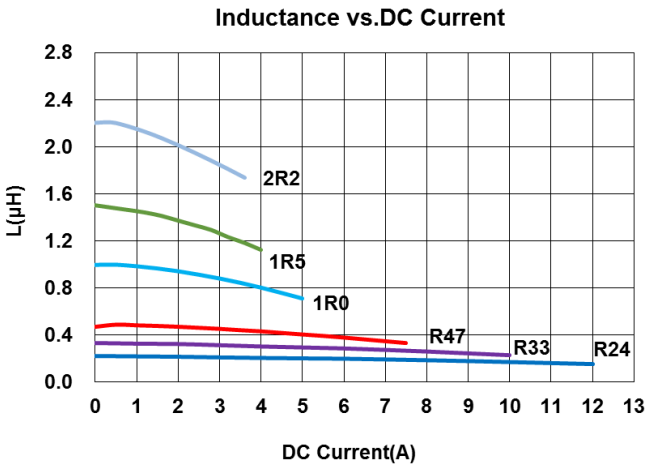
Test Instruments：

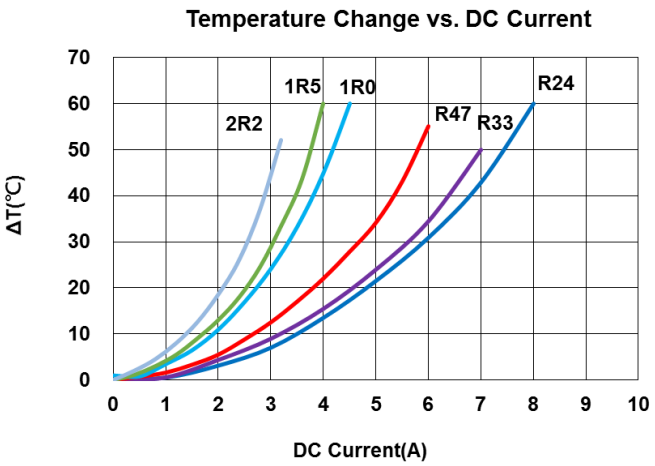
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAA00322512R47MC1	0.47	20	2	25(19)	7.0(8.2)	4.6(5.2)
BDAA003225121R0MC1	1.0	20	2	34(28)	5.7(6.5)	3.7(4.2)
BDAA003225121R5MC1	1.5	20	2	59(51)	4.0(4.6)	2.8(3.2)
BDAA003225122R2MC1	2.2	20	2	73(64)	3.5(4.0)	2.7(3.0)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

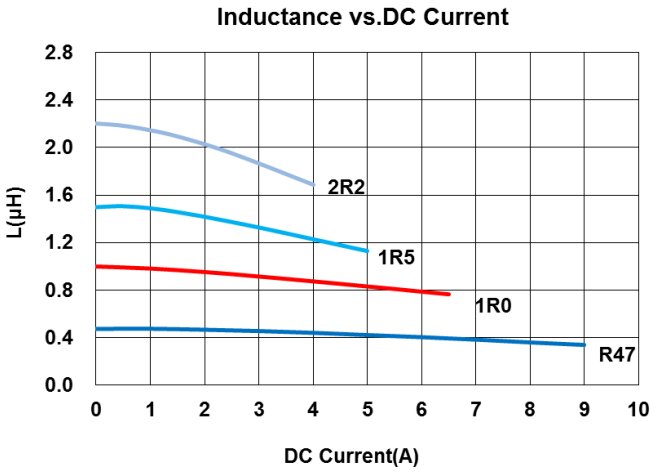
Test Instruments：

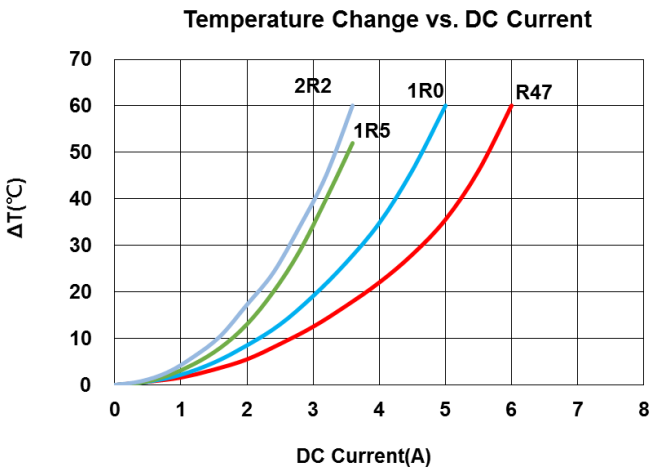
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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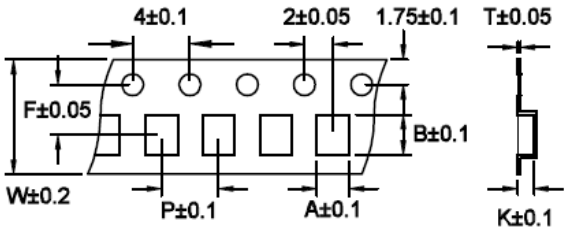
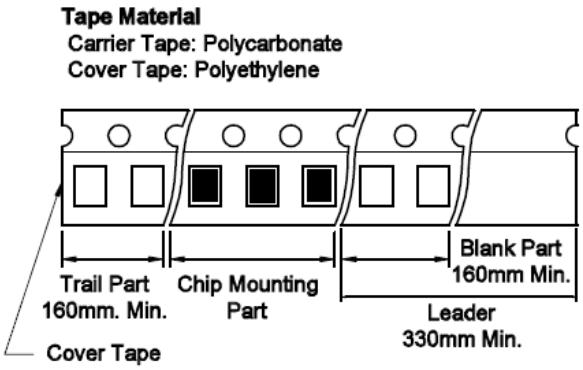
Packaging Specifications

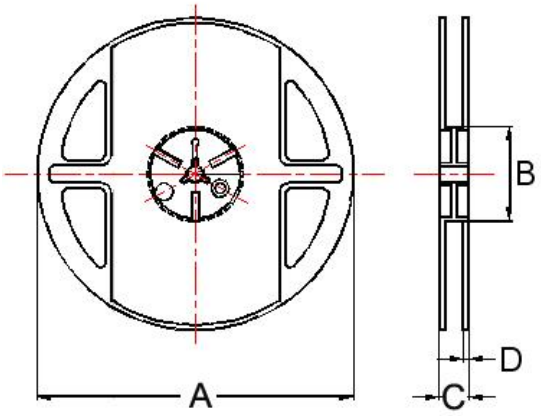
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDAA00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAA00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAA00252010	2.45	2.80	0.22	8	4	3.5	1.20	178	60	12	1.5	3000
BDAA00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BDAA00322510	2.80	3.55	0.23	8	4	3.5	1.20	178	60	12	1.5	3000
BDAA00322512	2.80	3.50	0.23	8	4	3.5	1.34	178	60	12	1.5	3000

BDBB Series

The BDBB Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

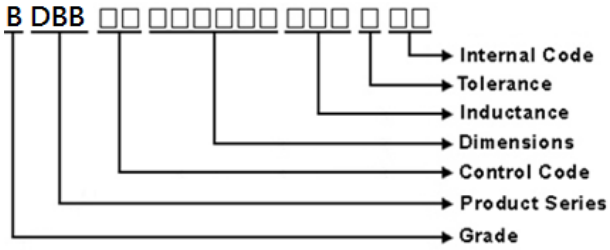
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*0.8mm

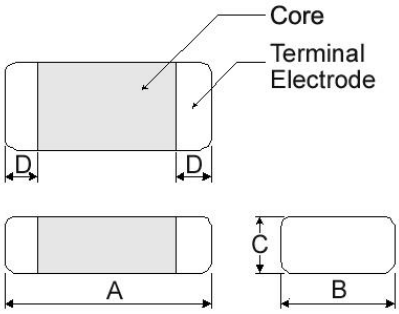
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

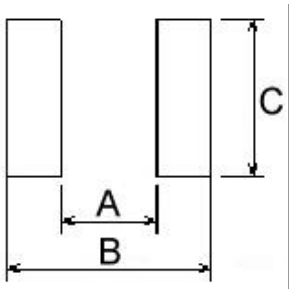
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDBB00201608	2.0±0.2	1.60±0.2	0.8Max	0.5±0.3
BDBB00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDBB00201612	2.0±0.2	1.60±0.2	1.2Max	0.5±0.3
BDBB00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDBB00201608	0.7	2.3	1.8
BDBB00201610	0.7	2.3	1.8
BDBB00201612	0.7	2.3	1.8
BDBB00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB002016081R0MC1	1.0	20	2	48(41)	3.8(4.1)	3.7(3.8)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

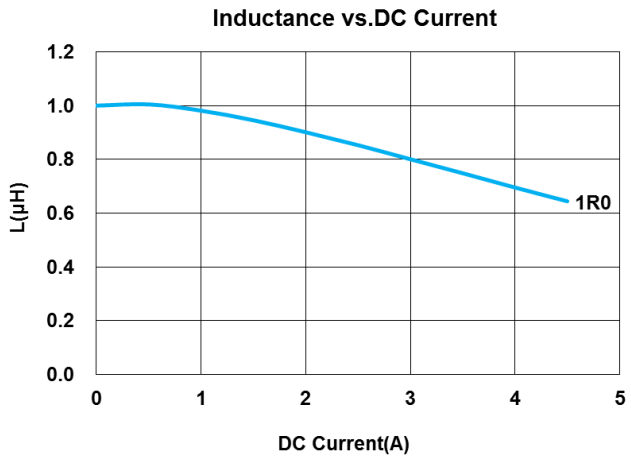
Test Instruments：

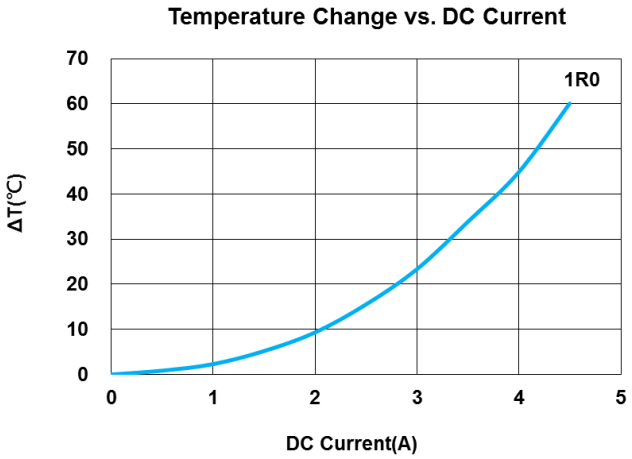
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBB00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBB002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBB002016102R2MC1	2.20	20	2	112(106)	2.5(2.7)	2.3(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

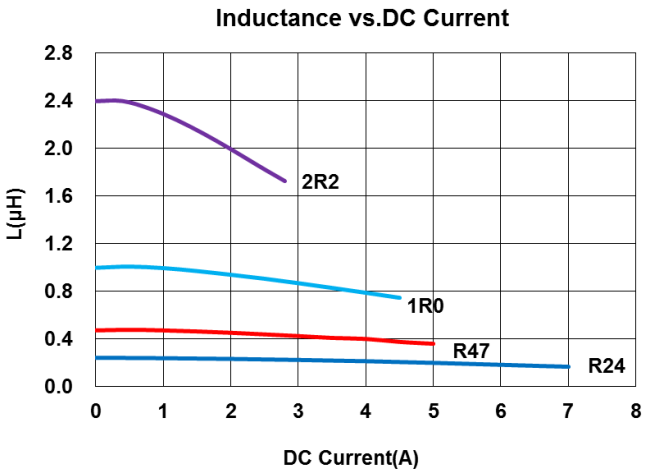
Test Instruments：

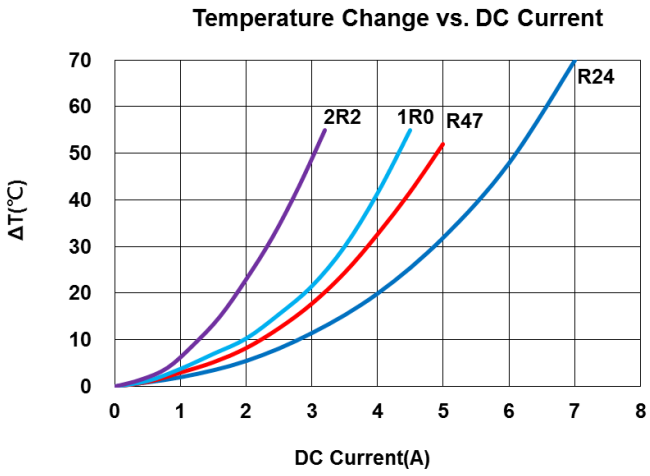
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00201612R47MC1	0.47	20	2	22(18)	5.3(5.5)	4.9(5.1)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

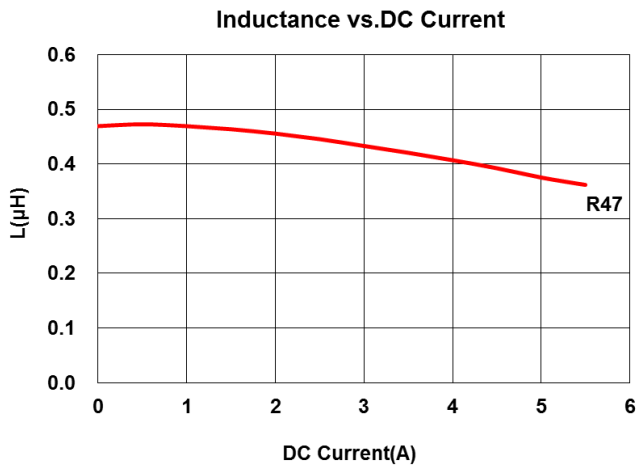
Test Instruments：

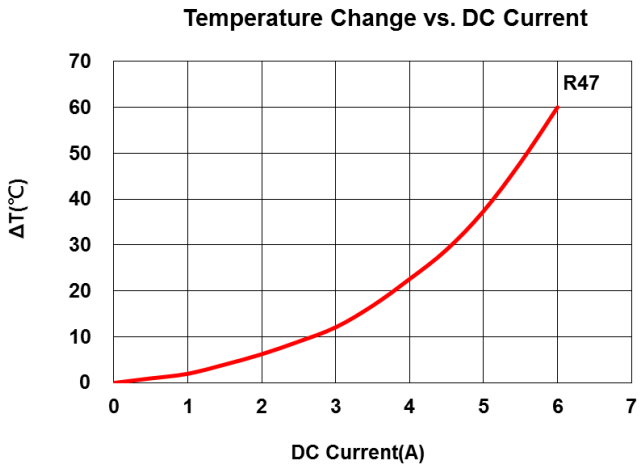
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBB00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBB00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

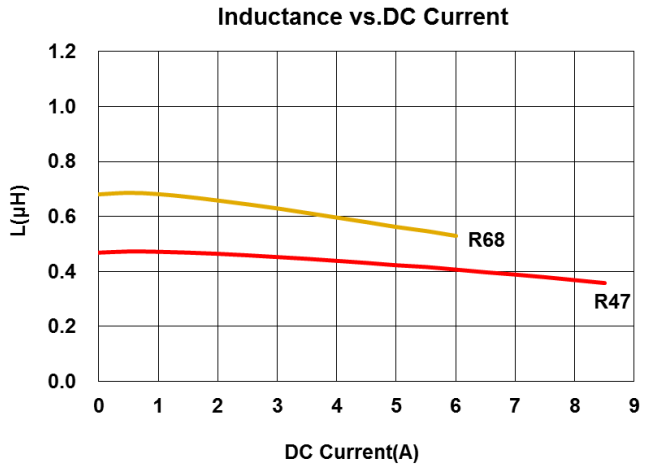
Test Instruments：

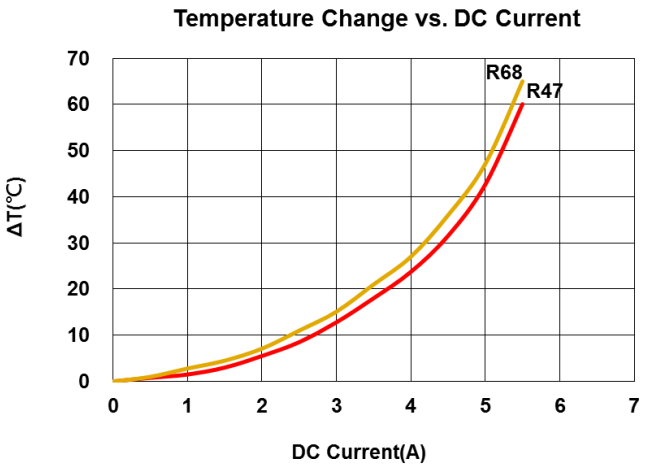
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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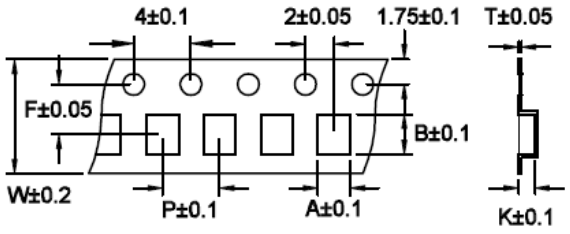
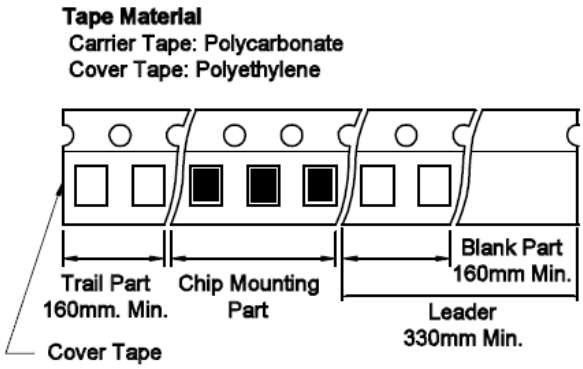
Packaging Specifications

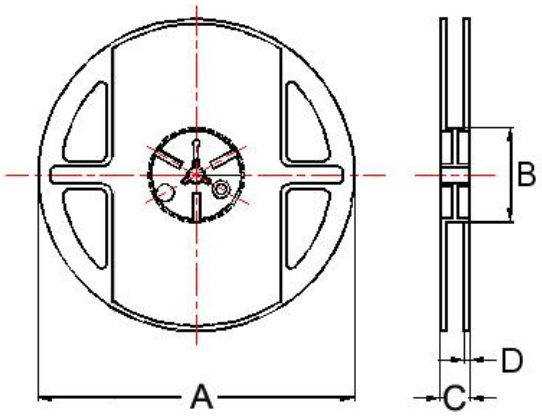
Tape Dimensions



Tape Material



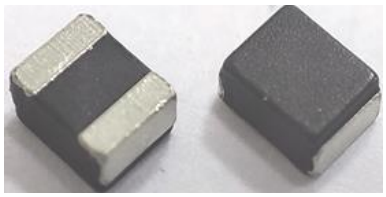
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDBB00201608	1.80	2.35	0.23	8	4	3.5	0.85	178	60	12	1.5	3000
BDBB00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00201612	1.90	2.20	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBB00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDCC Series



The BDCC series is the special design to enhance the performance of PFM and PWM applications. It provides lower Rac value at light load and lower Rdc value at heavy load to improve efficiency performance. Furthermore, it provides excellent saturation current to reduce the ripple current and enhance efficiency.

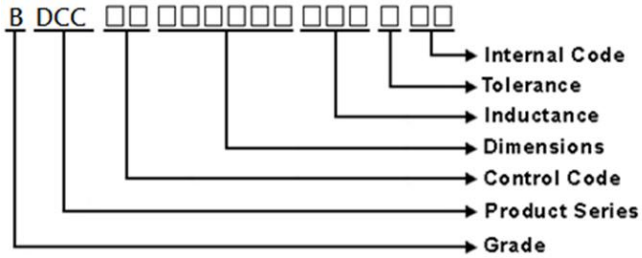
Features

- Chip Size: 2012
- Low profile: 0.8mm
- Inductance: 0.24uH ~0.47uH
- Low Rdc for better power efficiency management
- High saturation current
- L Type Termination

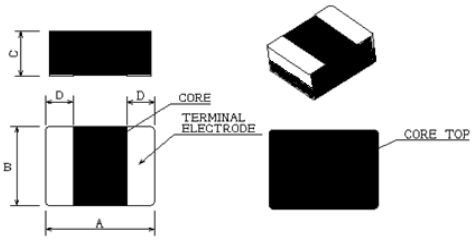
Applications

- DC-DC buck converter for power management
- 5G, Cell phone

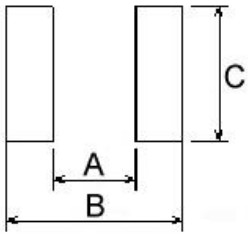
Product Identification



Chip Shape and Dimensions



Recommended Pad Pattern



Dimensions in mm

TYPE	A	B	C	D
BDCC00201208	2.0±0.2	1.25±0.2	0.8 Max.	0.5 Typ.

Dimensions in mm

TYPE	A	B	C
BDCC00201208	0.8	2.4	1.45

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max(Typ)	Isat (A) Max(Typ)	Irms (A) Max(Typ)
BDCC00201208R24MWA	0.24	20	2	22(18)	5.5(6.0)	4.2(4.3)
BDCC00201208R33MWA	0.33	20	2	24(20)	4.8(5.8)	4.0(4.2)
BDCC00201208R47MWA	0.47	20	2	29(25)	4.3(4.8)	3.7(3.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

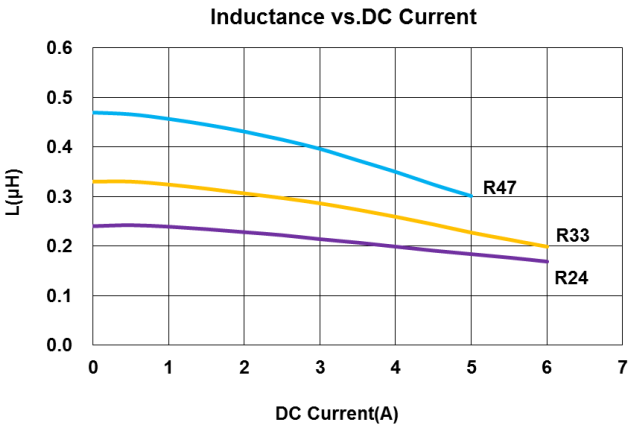
Test Instruments：

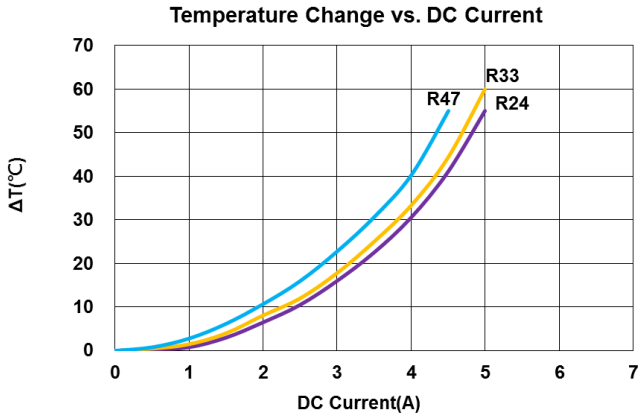
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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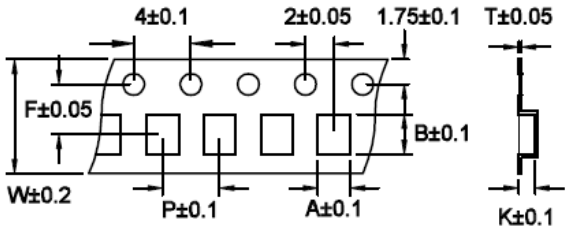
Pulse a YAGEO company

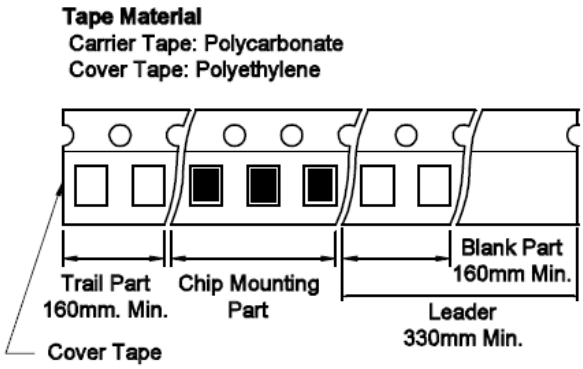
CHILISIN ELECTRONICS CORP.

Packaging Specifications

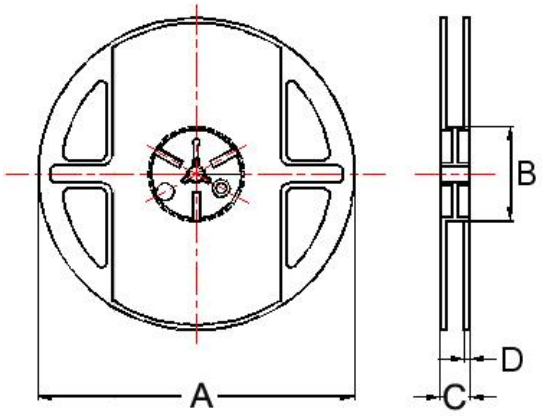
Tape Dimensions



Tape Material



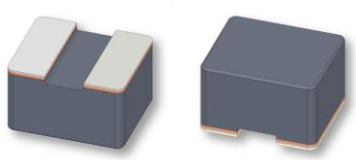
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDCC00201208	1.48	2.27	0.22	8	4	3.5	1.10	178	60	12	1.5	3000

BDQQ Series



The BDQQ series is the special design to enhance the performance of PFM and PWM applications. It provides lower Rac value at light load and lower Rdc value at heavy load to improve efficiency performance. Furthermore, it provides excellent saturation current to reduce the ripple current and enhance efficiency.

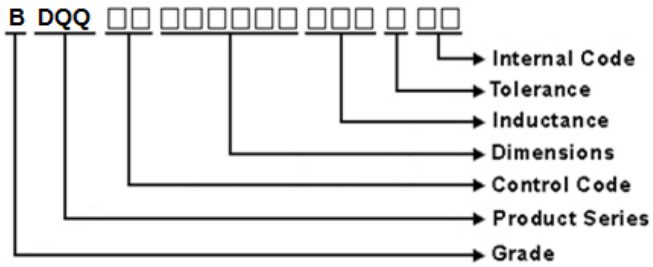
Features

- Chip Size: 1412
- Low profile: 0.65mm and 0.8mm
- Inductance: 0.11uH ~ 1.0uH
- Low Rdc for better power efficiency management
- High saturation current
- Special patented design for bottom termination

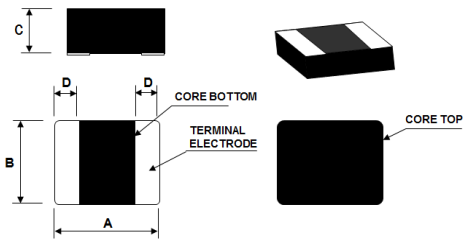
Applications

- DC-DC buck converter for power management
- 5G, Cell phone

Product Identification



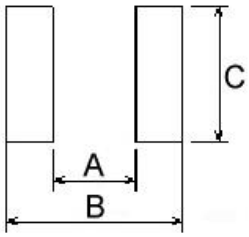
Chip Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
BDQQ001412FE	1.4±0.2	1.2±0.2	0.65 Max.	0.5 Typ.
BDQQ00141208	1.4±0.2	1.2±0.2	0.80 Max.	0.5 Typ.

Recommended Pad Pattern



Dimensions in mm

TYPE	A	B	C
BDQQ001412FE	0.5	1.5	1.3
BDQQ00141208	0.5	1.5	1.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
BDQQ001412FER11NCA	0.11	30	2	20	6.8	4.5
BDQQ001412FER24MCA	0.24	20	2	27	5.5	4.0
BDQQ001412FER33MCA	0.33	20	2	32	5.0	3.0
BDQQ001412FER47MCA	0.47	20	2	42	3.0	2.6
BDQQ001412FE1R0MCA	1.00	20	2	88	2.0	1.5

Note: Please be noted that the tolerance of 0.11uH is ±30% and others are ±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 15VDC

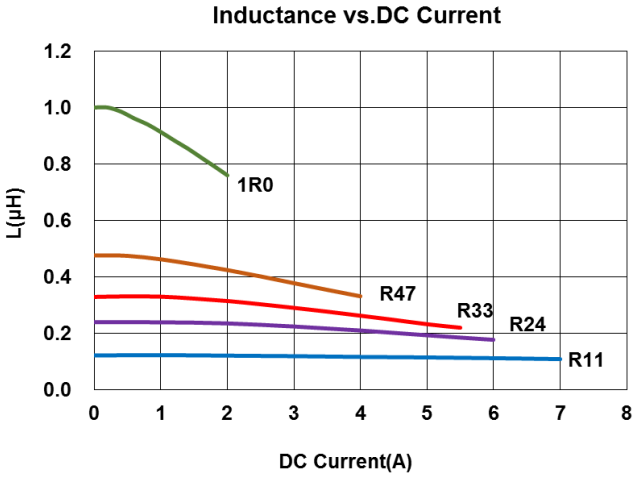
Test Instruments：

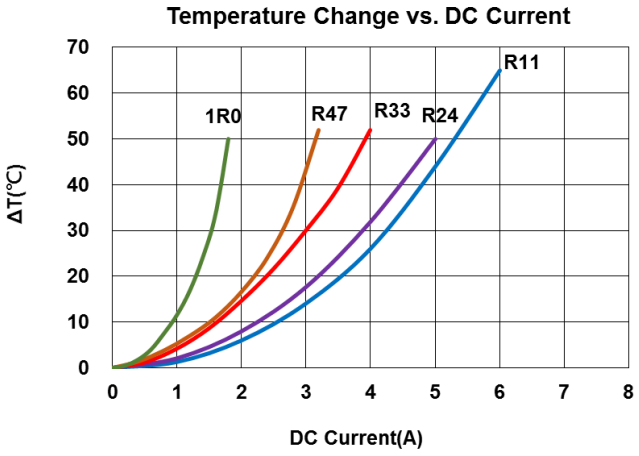
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) Max.	Isat (A) Max.	Irms (A) Max.
BDQQ00141208R33MCA	0.33	20	2	25	5.0	4.0
BDQQ00141208R47MCA	0.47	20	2	29	4.5	3.3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 15VDC

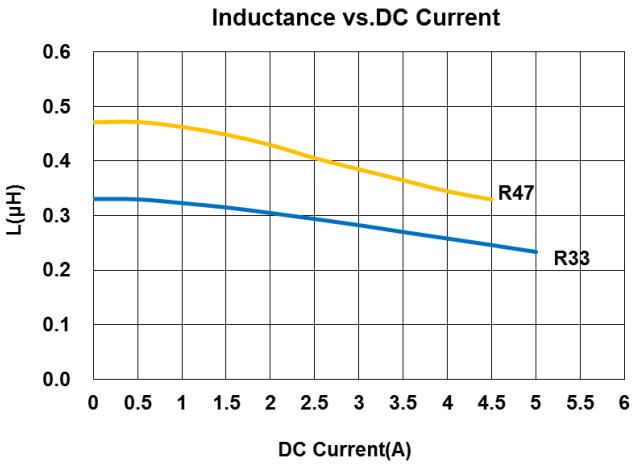
Test Instruments：

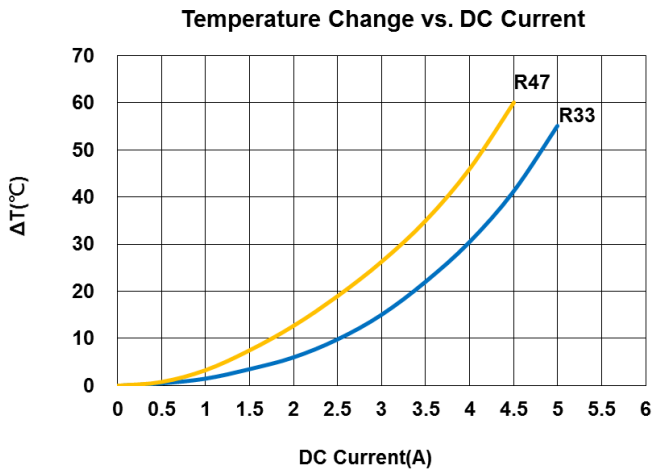
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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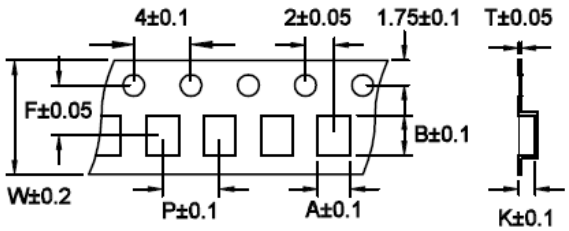
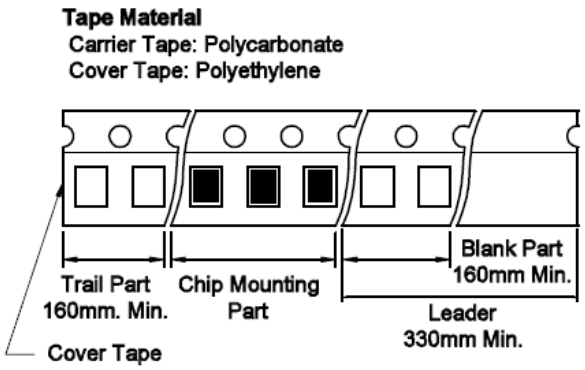
Packaging Specifications

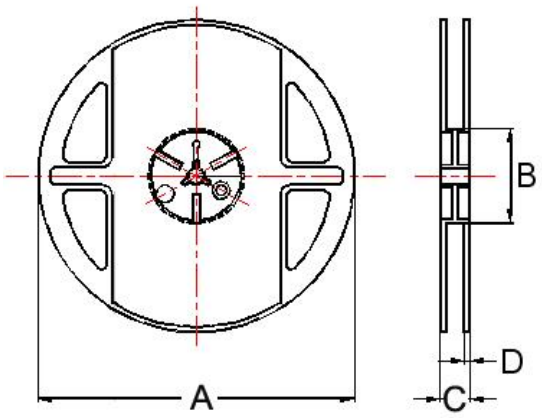
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDQQ001412FE	1.48	1.67	0.20	8	4	3.5	0.82	178	60	12	1.5	4000
BDQQ00141208	1.48	1.69	0.20	8	4	3.5	0.92	178	60	12	1.5	4000

BDAL Series

The BDAL Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

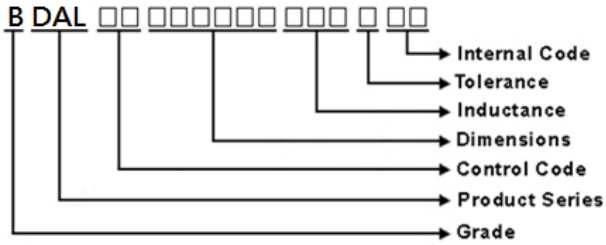
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*1.0mm

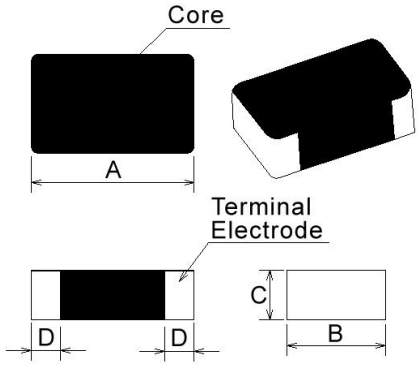
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

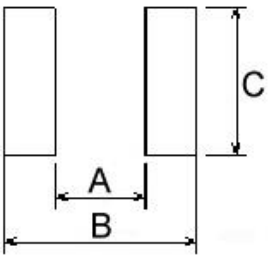
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDAL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDAL00252010	2.5±0.2	2.00±0.2	1.0Max	0.6±0.3
BDAL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDAL00201610	0.7	2.3	1.8
BDAL00252010	1.2	2.8	2.3
BDAL00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00201610R24MC1	0.24	20	2	27(21)	5.6(7.0)	4.6(5.3)
BDAL00201610R47MC1	0.47	20	2	34(28)	5.1(5.8)	4.5(5.0)
BDAL00201610R68MC1	0.68	20	2	43(38)	4.0(4.5)	3.1(3.7)
BDAL002016101R0MC1	1.0	20	2	62(53)	3.0(3.8)	2.7(3.4)
BDAL002016101R5MC1	1.5	20	2	85(75)	2.5(2.8)	2.3(2.7)
BDAL002016102R2MC1	2.2	20	2	135(112)	2.4(2.7)	1.8(2.2)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

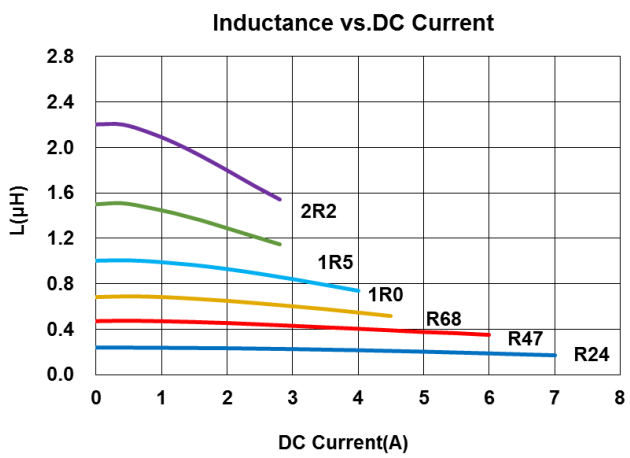
Test Instruments：

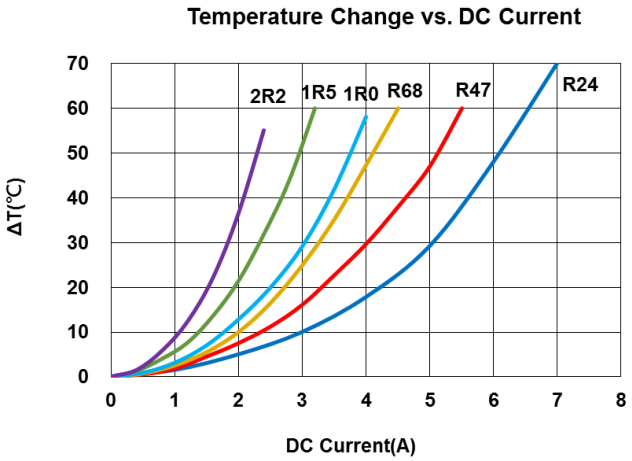
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252010R24MC1	0.24	20	2	18(13)	8.0(9.5)	5.5(6.5)
BDAL00252010R33MC1	0.33	20	2	24(18)	6.5(8.0)	4.8(5.5)
BDAL00252010R47MC1	0.47	20	2	35(27)	5.0(6.2)	3.9(4.5)
BDAL00252010R68MC1	0.68	20	2	40(32)	4.5(5.6)	3.7(4.2)
BDAL002520101R0MC1	1.0	20	2	48(40)	4.1(4.6)	3.5(4.0)
BDAL002520101R5MC1	1.5	20	2	75(68)	3.1(3.8)	2.4(2.8)
BDAL002520102R2MC1	2.2	20	2	97(87)	2.5(3.0)	2.2(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

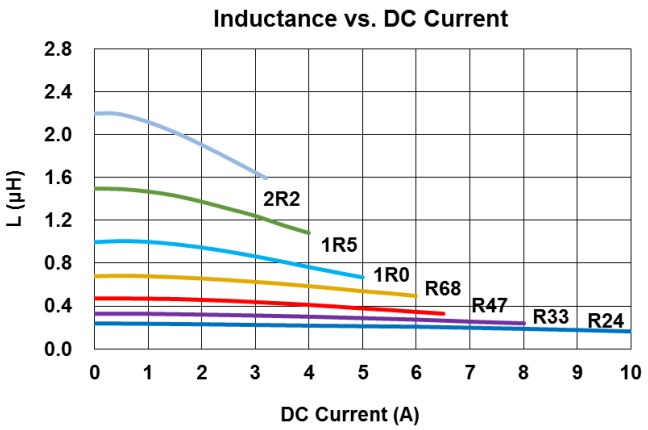
Test Instruments：

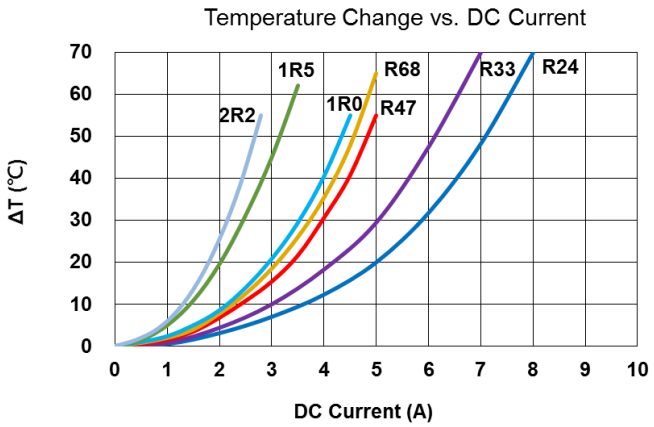
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDAL00252012R24MC1	0.24	20	2	15(11)	9.0(10.5)	6.2(7.3)
BDAL00252012R33MC1	0.33	20	2	18(15)	8.5(10.0)	5.8(6.4)
BDAL00252012R47MC1	0.47	20	2	33(28)	5.6(7.0)	3.8(4.5)
BDAL00252012R68MC1	0.68	20	2	36(30)	5.0(6.2)	3.7(4.4)
BDAL002520121R0MC1	1.0	20	2	42(35)	4.4(5.5)	3.6(4.1)
BDAL002520121R5MC1	1.5	20	2	59(52)	3.4(4.2)	2.7(3.1)
BDAL002520122R2MC1	2.2	20	2	86(80)	2.9(3.5)	2.5(2.9)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

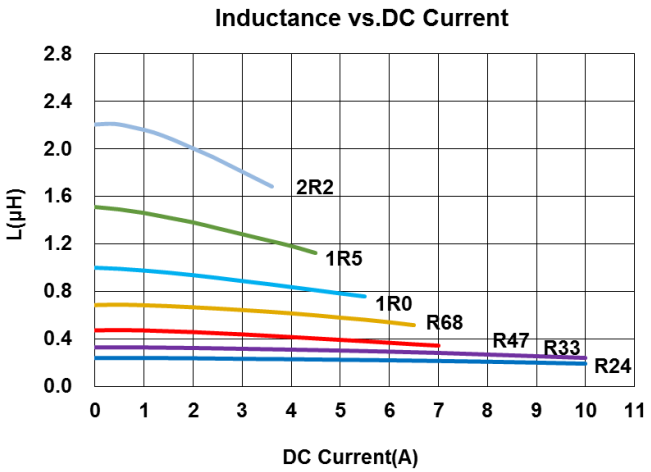
Test Instruments：

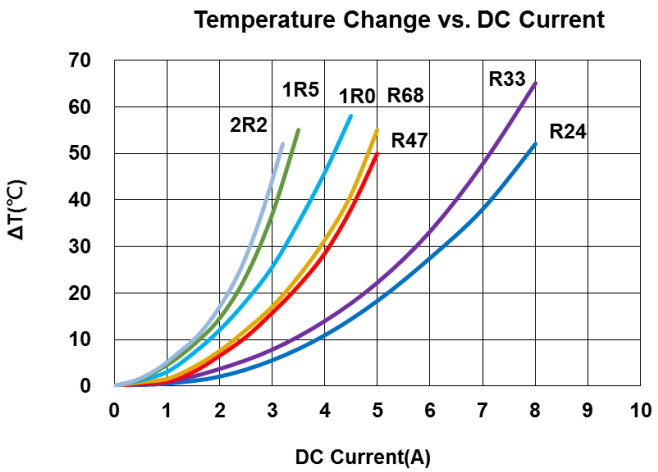
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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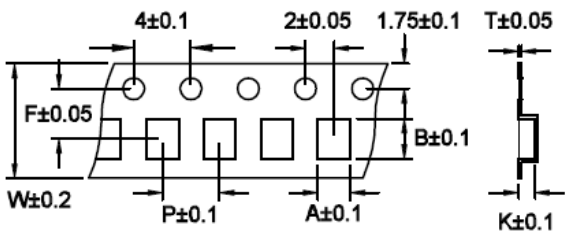
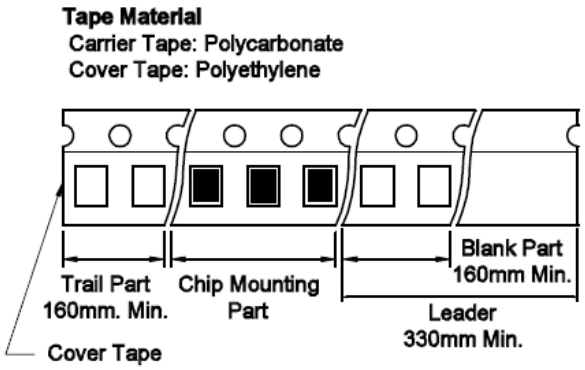
Packaging Specifications

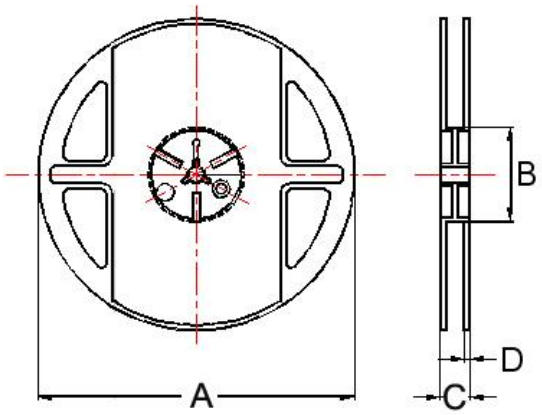
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDAL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDAL00252010	2.45	2.80	0.22	8	4	3.5	1.20	178	60	12	1.5	3000
BDAL00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDBL Series

The BDBL Series is designed specifically to enhance both PFM and PWM application performance. Q (Rac) value at light load and the RDC value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

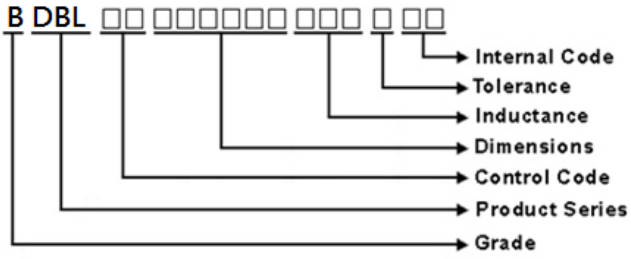
Features

- RoHS, Halogen Free and REACH Compliance
- High Efficiency
- Excellent Q, RDC and saturation current
- Low profile and miniature size down to 2.0*1.6*0.8mm

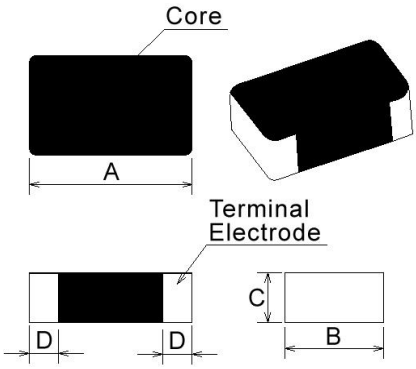
Applications

- Smartphones, tablets, laptop, and smart wearable devices
- HDD, SSD and PC peripheral devices
- Network server
- DC/DC buck converters

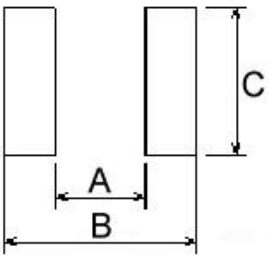
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BDBL00201610	2.0±0.2	1.60±0.2	1.0Max	0.5±0.3
BDBL00252012	2.5±0.2	2.00±0.2	1.2Max	0.6±0.3

Dimensions in mm

TYPE	A	B	C
BDBL00201610	0.7	2.3	1.8
BDBL00252012	1.2	2.8	2.3

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00201610R24MC1	0.24	20	2	20(15.5)	6.3(7.1)	4.7(5.5)
BDBL00201610R47MC1	0.47	20	2	26(22)	4.8(5.0)	4.0(4.3)
BDBL002016101R0MC1	1.00	20	2	43(38)	4.2(4.5)	3.6(3.9)
BDBL002016102R2MC1	2.20	20	2	112(106)	2.5(2.7)	2.3(2.5)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

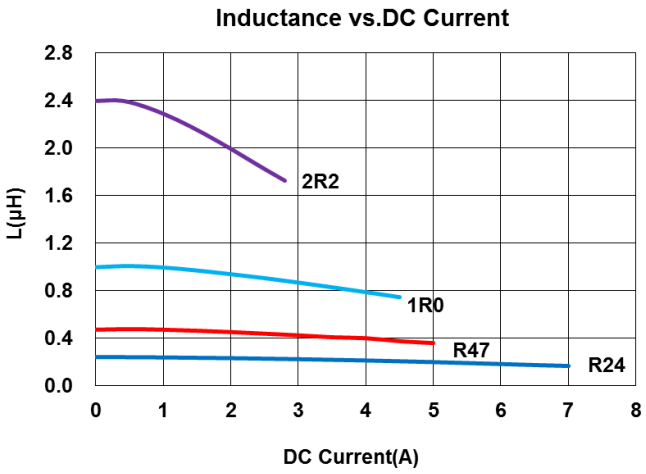
Test Instruments：

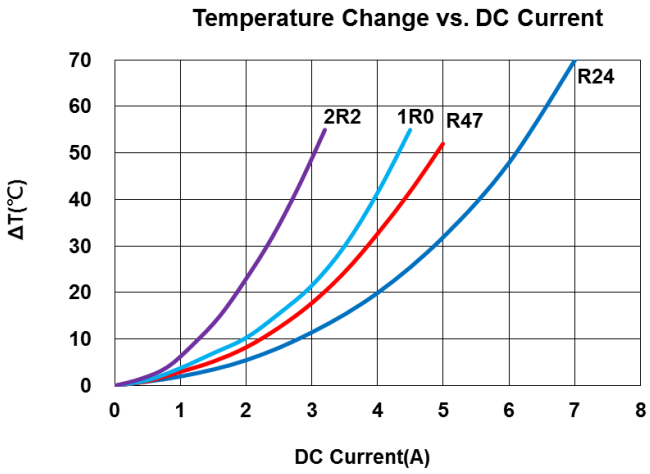
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)
BDBL00252012R47MC1	0.47	20	2	21(16)	8.0(8.2)	4.6(4.8)
BDBL00252012R68MC1	0.68	20	2	31(25)	5.4(6.0)	3.9(4.6)

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range: -40℃~125℃ (Including self-temperature rise)
- Isat for Inductance drop 30% from its initial inductance value without applying current
- Irms for a 40℃ temperature rise from 25℃ ambient with applying current
- Rated current: Isat or Irms, whichever is smaller
- Absolute maximum voltage: 20VDC

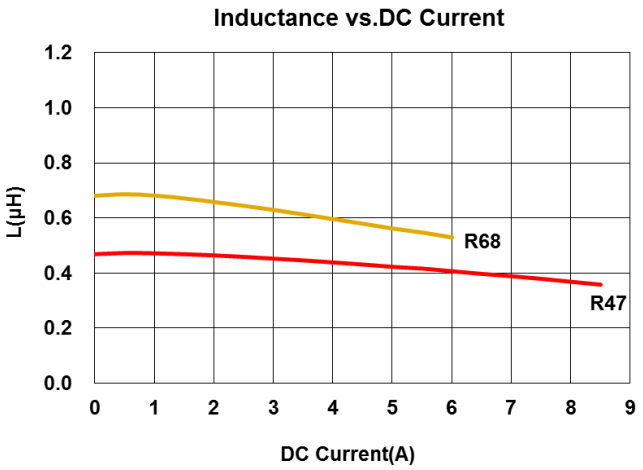
Test Instruments：

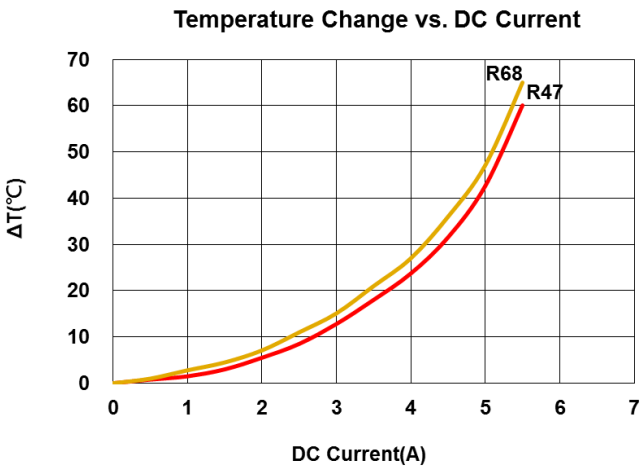
L: WK 6500B/HP4285A (or equivalent), 2MHz

RDC: Chen Hwa 502BC/HP4338B (or equivalent)

Isat: Agilent E4980A+HP42841A (or equivalent)

Irms: Agilent 6641 system DC power supply (or equivalent)





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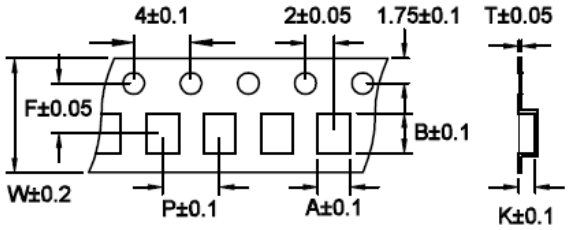
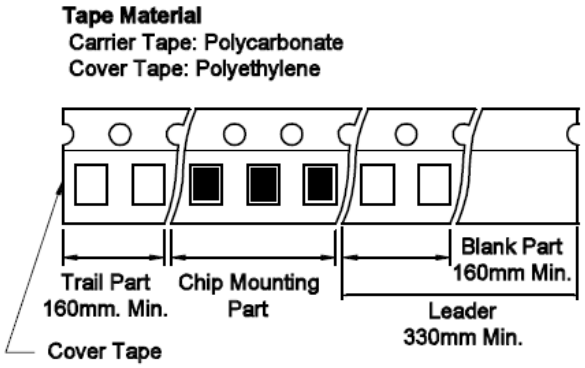
Packaging Specifications

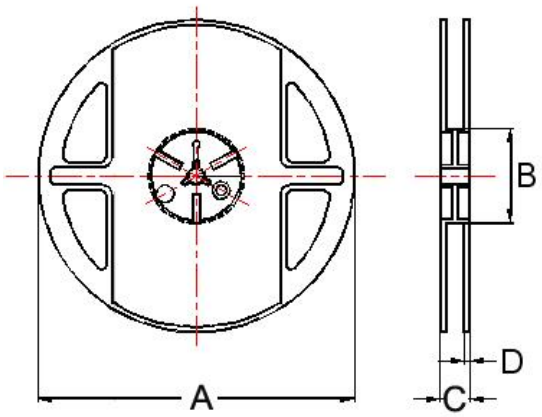
Tape Dimensions



Tape Material



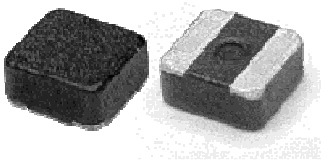
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BDBL00201610	1.90	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BDBL00252012	2.30	2.80	0.22	8	4	3.5	1.35	178	60	12	1.5	3000

BDSP Series



The series is designed specifically to enhance DDR5 application performance. Better ACR value at light load and the DCR value at heavy load.
Furthermore, the saturation current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.
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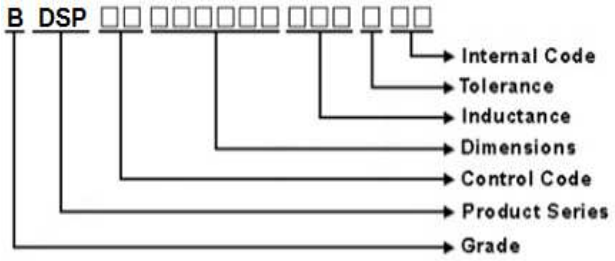
Features

- RoHS, Halogen Free and REACH Compliance
- Higher Isat and lower DCR、ACR with smaller chip size
- Low coil resistance with large currents.
- Low profile:4.3mm x 4.3mm x 2.0mm
- High Efficiency

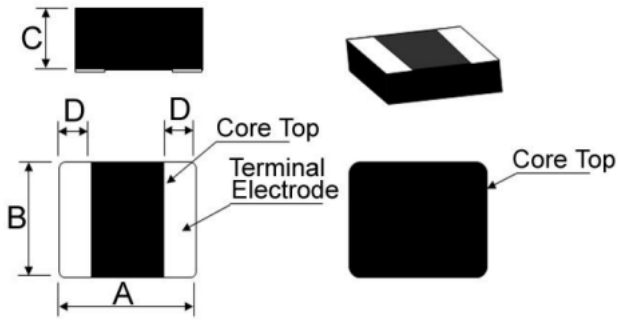
Applications

- Server
- Notebook
- SSD

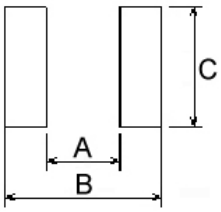
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
404020	4.0±0.3	4.0±0.3	2.0Max	1.3±0.3

Dimensions in mm

TYPE	A	B	C
404020	1.1	4.3	4.3

Electrical Characteristics

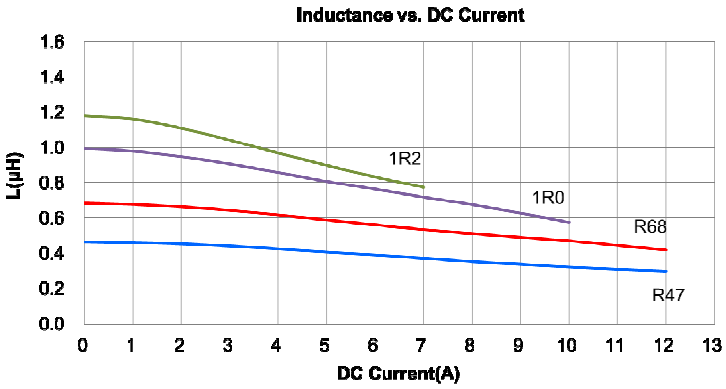
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BDSP00404020R47MJP	0.47	20	1	4.5(4.0)	9.2(11)	10.5(11.5)
BDSP00404020R68MJP	0.68	20	1	6.2(5.5)	8.0(9.2)	9.5(10.5)
BDSP004040201R0MJP	1.00	20	1	9.5(8.3)	6.0(7.5)	8.3(9.5)
BDSP004040201R2MJP	1.20	20	1	12.0(9.5)	5.0(6.5)	6.0(7.0)

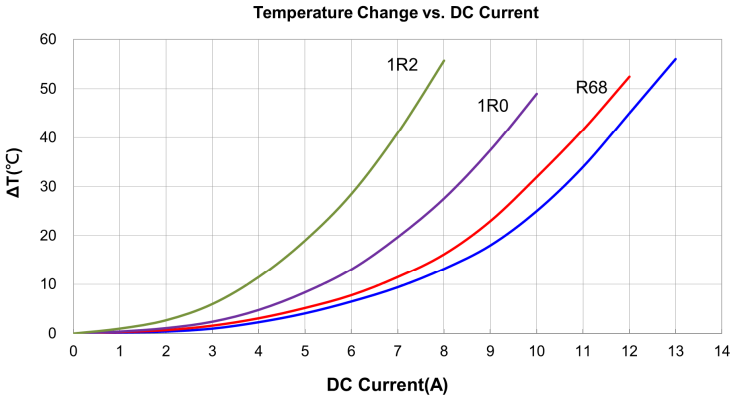
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 20VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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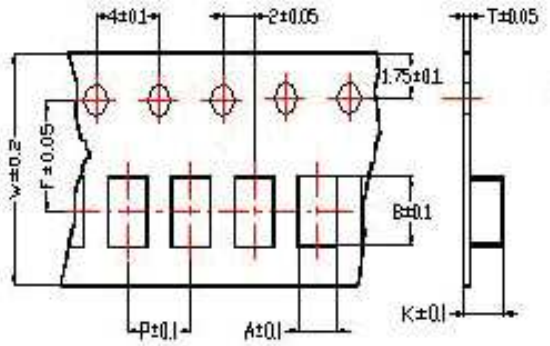
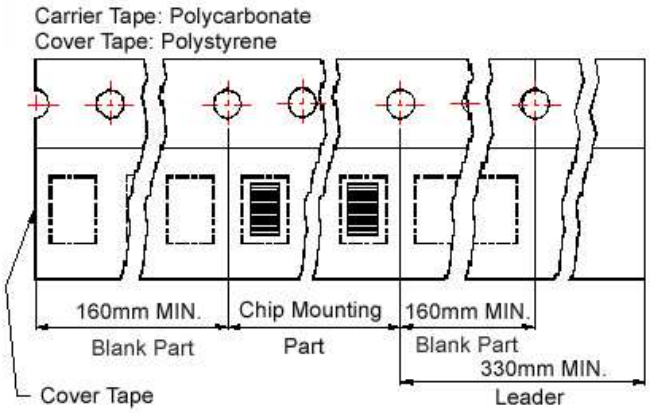
Packaging Specifications

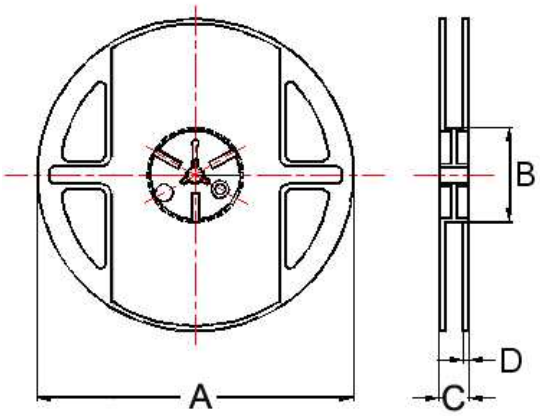
Tape Dimensions



Tape Material



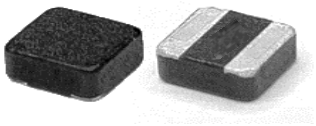
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
404020	4.4	4.5	0.25	12	8	3.5	2.4	330	100	16	2	2000

BESP Series



The series is designed specifically to enhance DDR5 application performance. Better ACR value at light load and the DCR value at heavy load.
Furthermore, the saturation current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.
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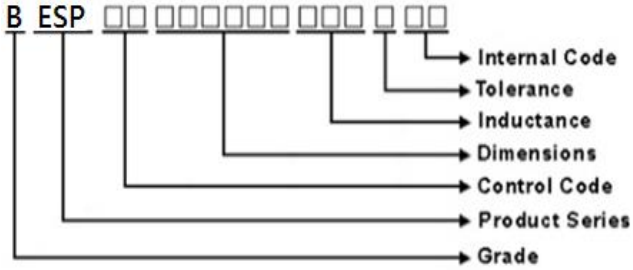
Features

- RoHS, Halogen Free and REACH Compliance
- Higher Isat and lower DCR、ACR with smaller chip size
- Low coil resistance with large currents.
- High Efficiency

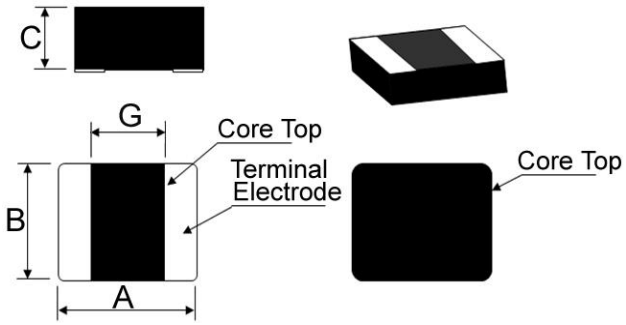
Applications

- Server
- Notebook
- SSD

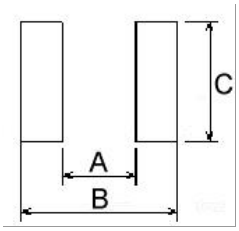
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
252012	2.5±0.2	2.0±0.2	1.2 Max	1.0 Typ
322512	3.2±0.2	2.5±0.2	1.2 Max	1.2 Typ

Dimensions in mm

TYPE	A	B	C
252012	1.0	2.7	2.2
322512	1.2	3.4	2.7

Electrical Characteristics

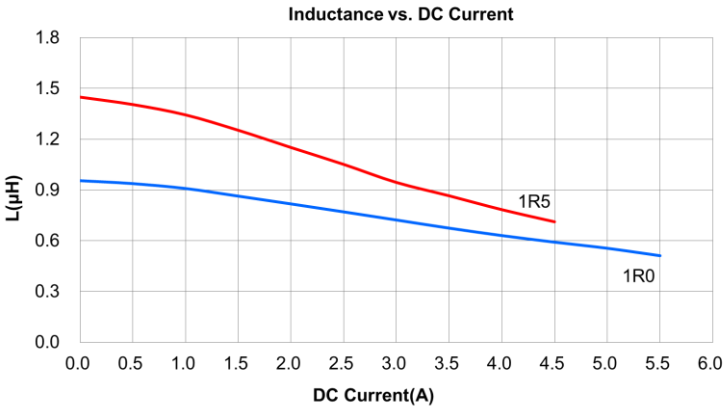
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BESP002520121R0MJS	1.00	20	1	28.0(25.0)	3.0(3.3)	4.2(4.7)
BESP002520121R5MJS	1.50	20	1	50.0(45.0)	2.4(2.7)	3.3(3.8)

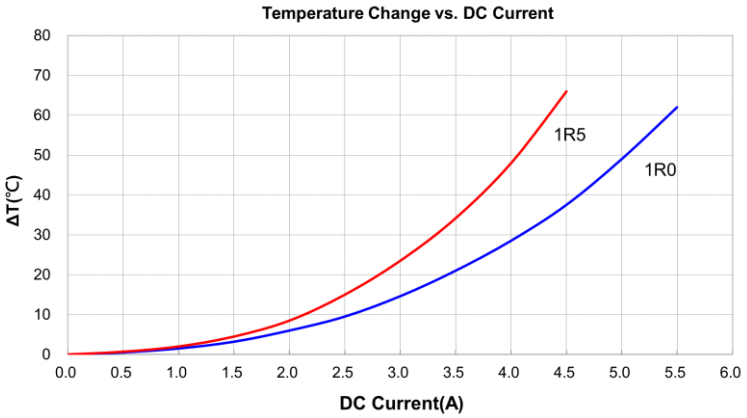
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
RDC：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

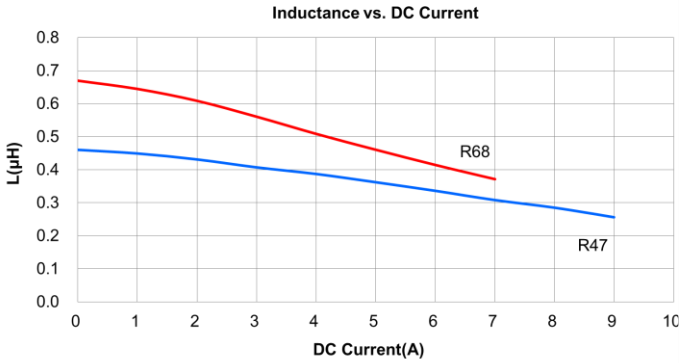
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BESP00322512R47MJS	0.47	20	1	12.0(10.5)	5.6(6.2)	6.0(6.5)
BESP00322512R68MJS	0.68	20	1	16.5(14.0)	4.2(4.6)	5.5(6.0)

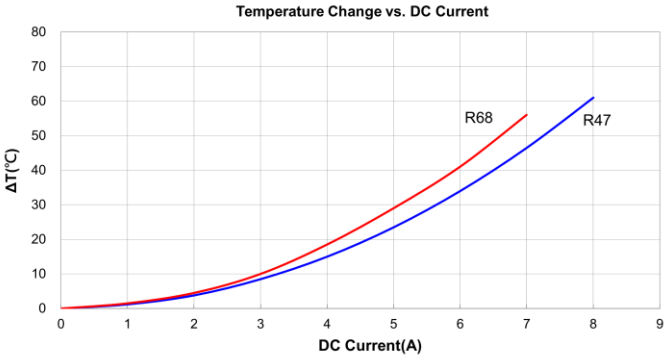
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC (Based on test method, it may not the same under different application, it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
RDC：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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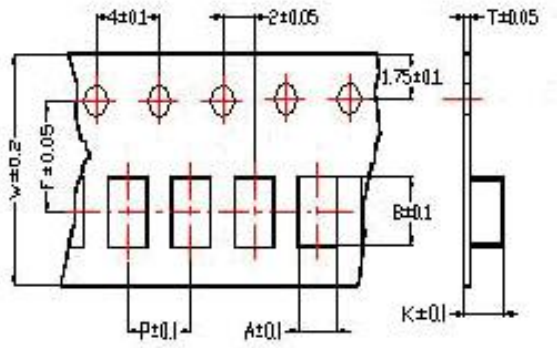
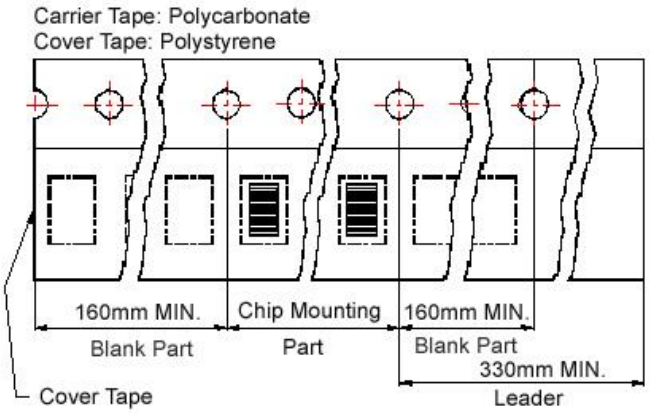
Packaging Specifications

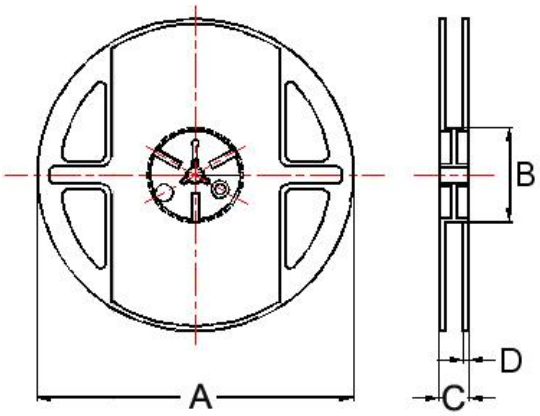
Tape Dimensions



Tape Material



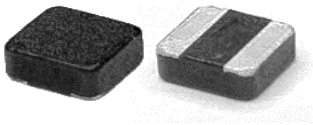
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
252012	2.35	2.90	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
322512	2.85	3.50	0.25	8	4	3.5	1.35	178	60	12	1.5	2000

BEBE Series



The BEBE Series is designed specifically to enhance the performance of both PFM and PWM applications. The Rac value at light load and the DCR value at heavy load are both exceptional. Furthermore, the saturated current performance is also optimal, helping to reduce the ripple current and enhance the efficiency.

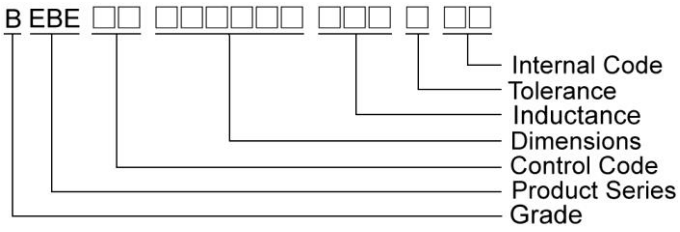
Features

- RoHS, Halogen Free and REACH Compliance
- High performance (Isat) realized by metal dust core.
- Low coil resistance with large currents.

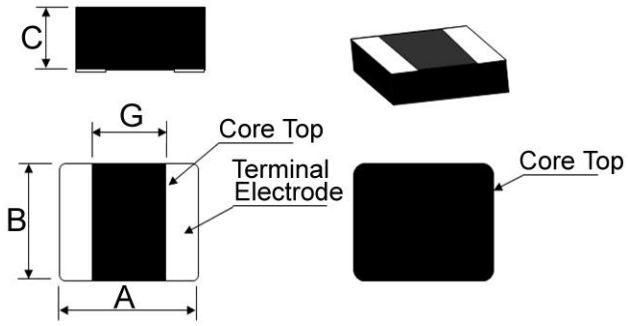
Applications

- Smartphones, wearable devices, Pad, Notebook

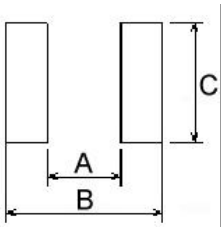
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	G
BEBE001412F5	1.4±0.2	1.2±0.2	0.65Max	0.53
BEBE00141208	1.4±0.2	1.2±0.2	0.8Max	0.53
BEBE00201208	2.0±0.2	1.2±0.2	0.8Max	0.6
BEBE00201210	2.0±0.2	1.2±0.2	1.0Max	0.6
BEBE00201212	2.0±0.2	1.2±0.2	1.2Max	0.6
BEBE00252010	2.5±0.2	2.0±0.2	1.0Max	0.7
BEBE00252012	2.5±0.2	2.0±0.2	1.2Max	0.7
BEBE00322508	3.2±0.2	2.5±0.2	0.8Max	0.9
BEBE00322510	3.2±0.2	2.5±0.2	1.2Max	0.9

Dimensions in mm

TYPE	A	B	C
BEBE001412F5	0.5	1.6	1.4
BEBE00141208	0.5	1.6	1.4
BEBE00201208	0.5	2.2	1.4
BEBE00201210	0.5	2.2	1.4
BEBE00201212	0.5	2.2	1.4
BEBE00252010	0.6	2.7	2.2
BEBE00252012	0.6	2.7	2.2
BEBE00322508	0.8	3.7	2.8
BEBE00322510	0.8	3.7	2.8

Electrical Characteristics

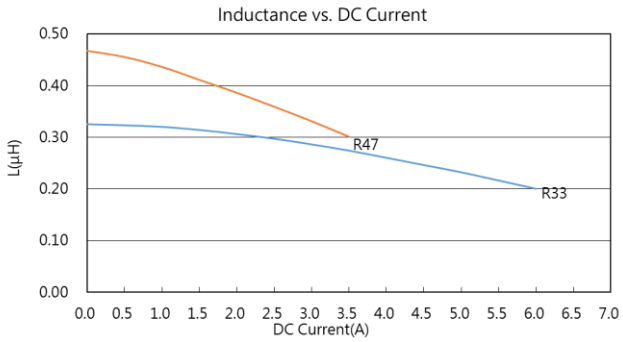
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE001412F5R33MMA	0.33	20	1MHz,1V	32.0(26.0)	5.0(5.5)	3.0(3.3)
BEBE001412F5R47MMA	0.47	20	1MHz,1V	42.0(35.0)	3.0(3.3)	2.6(2.9)

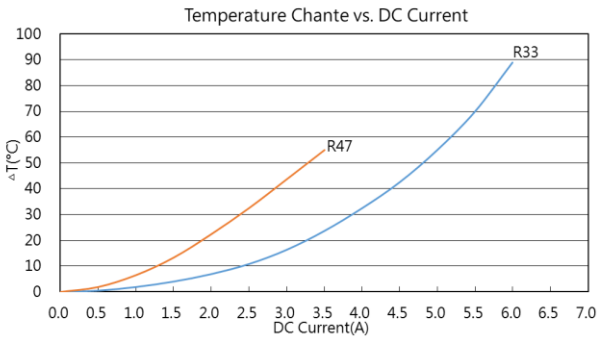
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

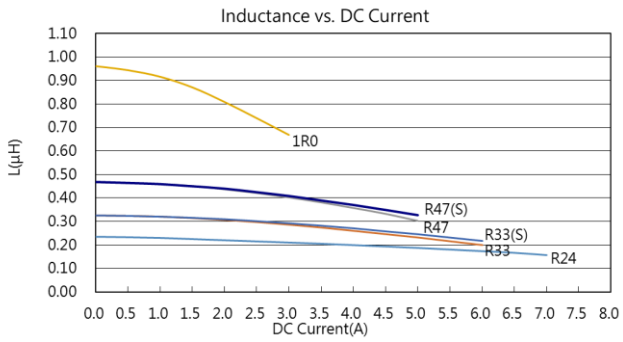
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00141208R24MMA	0.24	20	1MHz,1V	21.5(18.5)	6.5(7.1)	5.3(5.8)
BEBE00141208R33MMA	0.33	20	1MHz,1V	25.0(23.0)	4.5(5.0)	3.6(4.0)
BEBE00141208R47MMA	0.47	20	1MHz,1V	30.0(28.0)	4.0(4.5)	3.0(3.3)
BEBE001412081R0MMA	1.00	20	1MHz,1V	77.0(70.0)	2.5(2.8)	2.0(2.3)
BEBE00141208R33MMS	0.33	20	1MHz,1V	25.0(23.0)	5.5(5.7)	3.6(4.0)
BEBE00141208R47MMS	0.47	20	1MHz,1V	30.0(28.0)	4.8(5.0)	3.0(3.3)

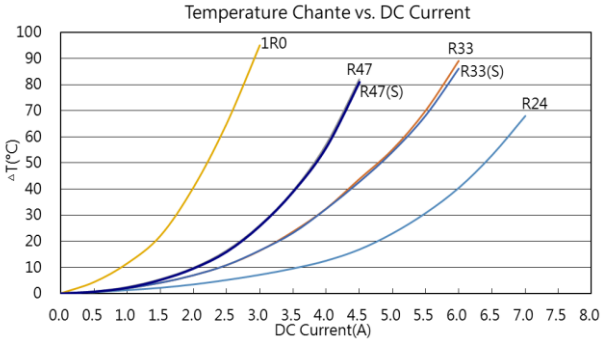
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Pulse a YAGEO company
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

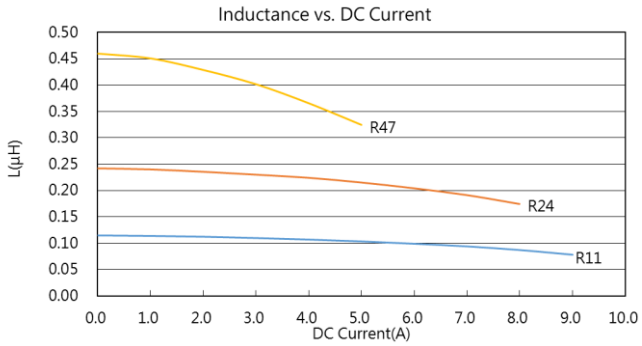
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00201208R11MMA	0.11	20	1MHz,1V	12.0(10.0)	8.6(9.1)	6.5(7.0)
BEBE00201208R24MMA	0.24	20	1MHz,1V	20.0(17.0)	7.9(8.3)	6.0(6.5)
BEBE00201208R47MMA	0.47	20	1MHz,1V	25.0(23.0)	4.3(4.8)	3.7(4.2)

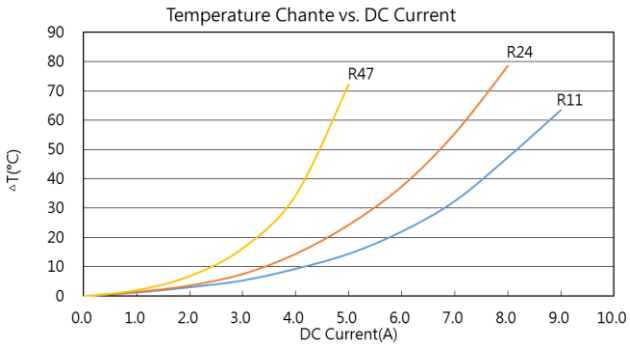
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

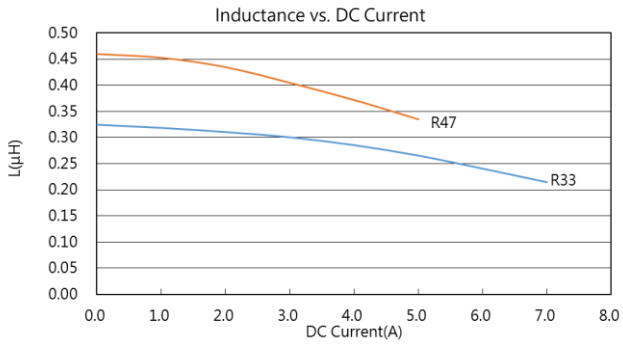
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00201210R33MMA	0.33	20	1MHz,1V	20.0(18.0)	6.0(6.5)	4.7(5.3)
BEBE00201210R47MMA	0.47	20	1MHz,1V	24.0(21.0)	5.0(5.5)	4.2(4.7)

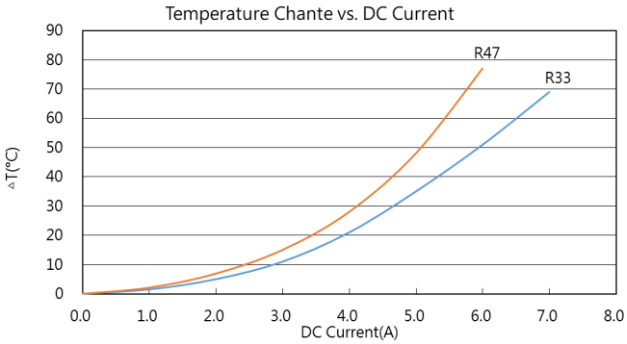
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

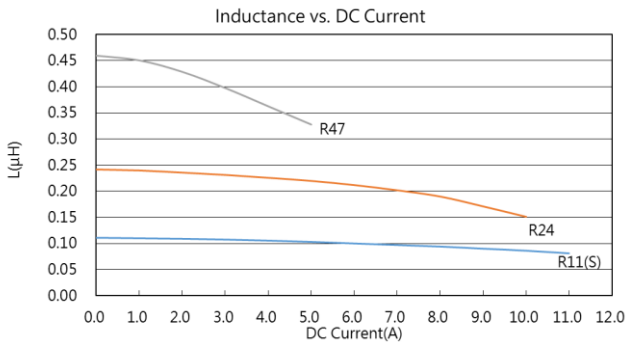
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	D Irms(A) Max(Typ)
BEBE00201212R11MMS	0.11	20	1MHz,1V	5.8(5.0)	11.0(11.5)	9.5(10.0)
BEBE00201212R24MMA	0.24	20	1MHz,1V	19.0(17.0)	8.5(9.0)	7.0(7.5)
BEBE00201212R47MMA	0.47	20	1MHz,1V	23.5(22.0)	5.0(5.5)	4.5(5.0)

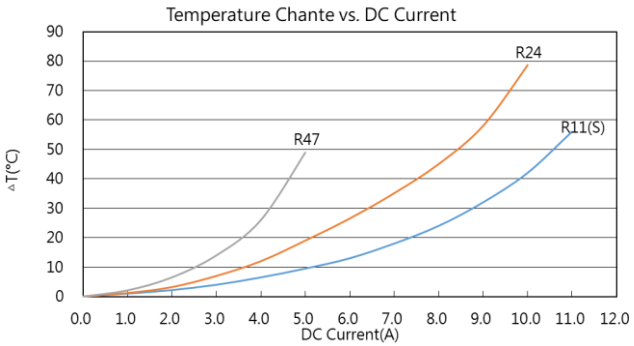
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

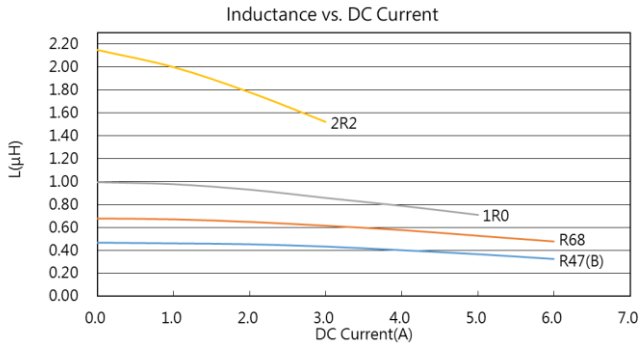
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00252010R47MMB	0.47	20	1MHz,1V	25.0(19.0)	5.0(5.6)	3.7(4.3)
BEBE00252010R68MMA	0.68	20	1MHz,1V	18.5(16.0)	5.5(6.0)	5.0(5.5)
BEBE002520101R0MMA	1.00	20	1MHz,1V	25.0(18.0)	5.0(5.5)	5.2(5.7)
BEBE002520102R2MMA	2.20	20	1MHz,1V	77.0(70.0)	2.5(3.0)	2.6(2.9)

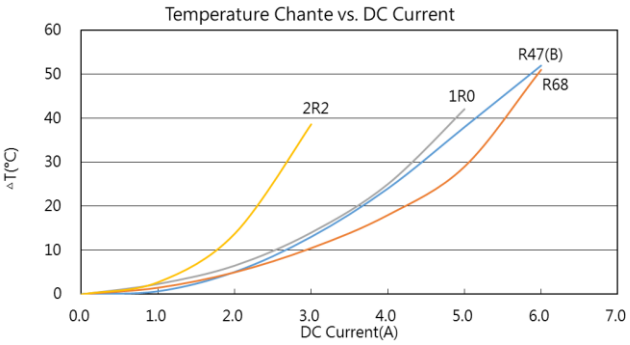
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

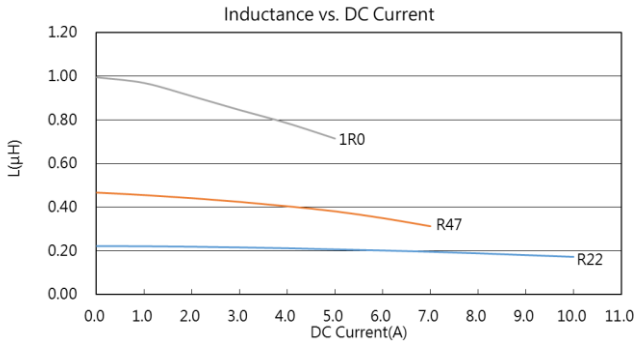
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE00252012R22MMB	0.22	20	1MHz,1V	13.0(10.0)	9.0(9.5)	8.0(8.5)
BEBE00252012R47MMB	0.47	20	1MHz,1V	23.0(18.0)	5.9(6.5)	6.0(6.3)
BEBE002520121R0MMB	1.00	20	1MHz,1V	32.0(27.0)	4.3(4.9)	4.2(5.0)

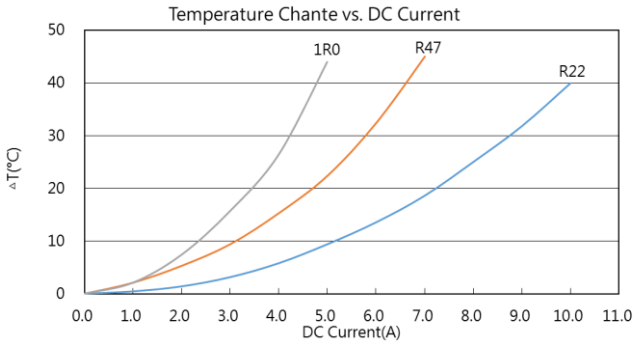
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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Electrical Characteristics

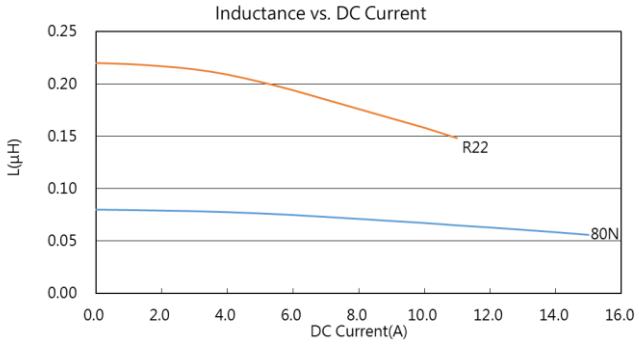
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ)	Isat(A) Max(Typ)	Irms(A) Max(Typ)
BEBE0032250880NMMA	0.08	20	1MHz,1V	4.2(3.9)	14.5(15.5)	8.0(9.0)
BEBE00322510R22MMA	0.22	20	1MHz,1V	12.5(10.5)	10.0(11.0)	7.0(7.5)

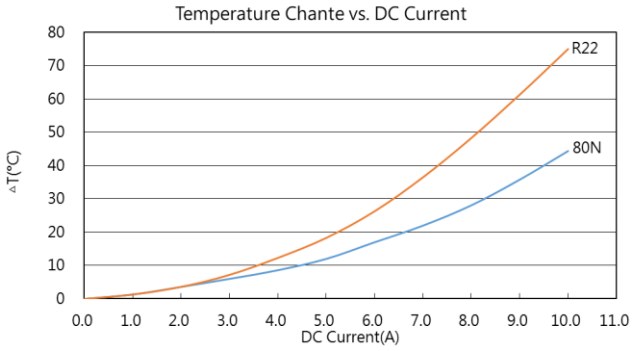
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated current：Isat or Irms, whichever is smaller
- Absolute maximum voltage 15VDC(Based on test method, it may not the same under different application,it is recommended to verify first.)

Test Instruments：

L：Agilent E4991/HP4286A+16197A/WP6500P (or equivalent), 1MHz 1V
DCR：CHEN HWA502BC/HP4338B (or equivalent)
Isat：Agilent E4980A+HP42841A (or equivalent)
Irms：Agilent 6641 SYSTEM DC POWER SUPPLY (or equivalent)





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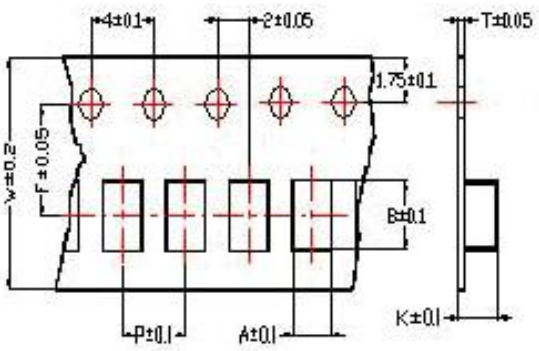
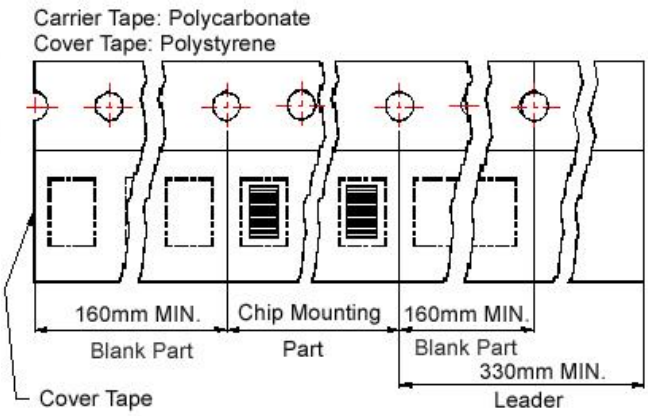
Packaging Specifications

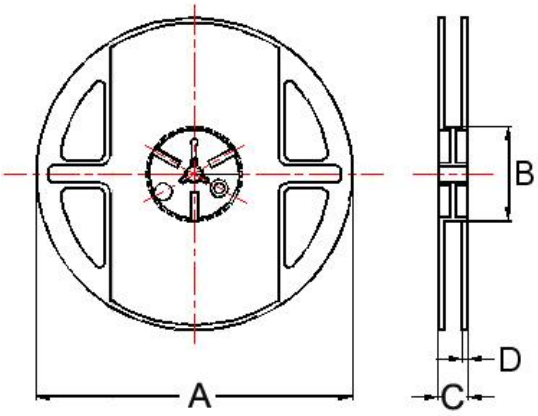
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A	B	T	W	P	F	K	A	B	C	D	PCS / REEL
BEBE001412F5	1.50	1.70	0.22	8	4	3.5	0.80	178	60	12	1.5	3000
BEBE00141208	1.50	1.70	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201208	1.50	2.30	0.22	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00201210	1.50	2.30	0.22	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00201212	1.50	2.30	0.22	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00252010	2.30	2.80	0.25	8	4	3.5	1.15	178	60	12	1.5	3000
BEBE00252012	2.30	2.80	0.25	8	4	3.5	1.35	178	60	12	1.5	3000
BEBE00322508	2.80	3.50	0.25	8	4	3.5	0.95	178	60	12	1.5	3000
BEBE00322510	2.80	3.50	0.25	8	4	3.5	1.35	178	60	12	1.5	2000

BMCx Series

BMCx series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

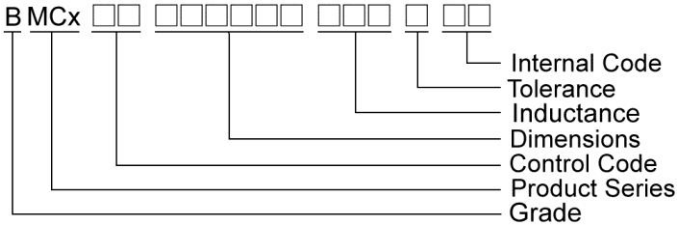
Features

- RoHS, Halogen Free and REACH Compliance
- High rated current
- Ultra low buzz noise

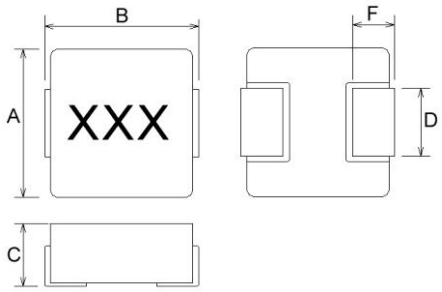
Applications

- Laptops and PCs
- Switchs and servers
- Base stations
- DC/DC converters

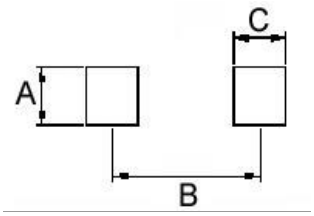
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	F
BMCA00050512	5.2±0.2	5.4±0.35	1.2Max	2.0±0.3	1.0±0.3
BMCA00060630	6.6±0.2	6.95±0.35	2.8±0.2	3.0±0.3	1.6±0.5
BMCA00101040	10.2±0.3	11.6Max	3.8±0.2	2.5±0.5 3.0±0.5	2.5±0.5

Dimensions in mm

TYPE	A	B	C
BMCA00050512	2.5	4.1	1.9
BMCA00060630	3.5	6.05	2.35
BMCA00101040	4.0	9.5	3.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking.
BMCA000505124R7MB1	4.7	20	100	165(150)	4.6(5.4)	2(2.3)	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

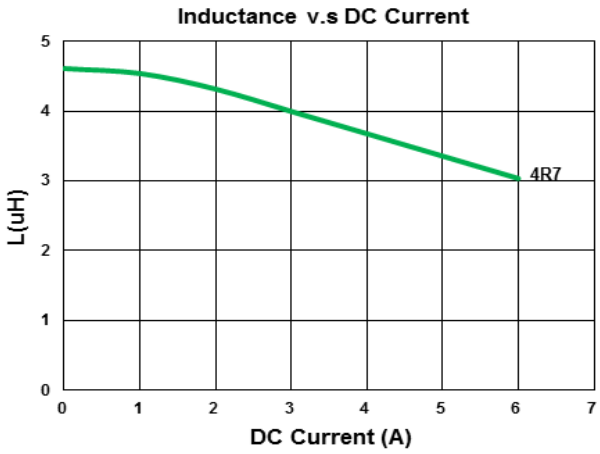
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

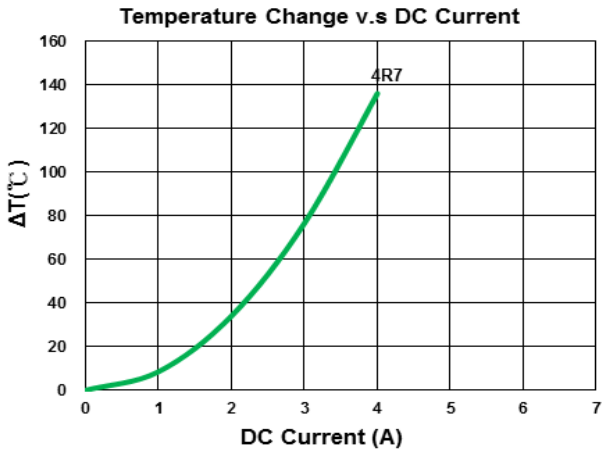
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)Typ.	Irms (A)Typ.	Marking.
BMCA00060630R10MD1	0.10	20	100	1.7	60	32.5	R10
BMCA00060630R22MD1	0.22	20	100	2.8	40	23.0	R22
BMCA00060630R33MD1	0.33	20	100	3.9	30	20.0	R33
BMCA00060630R47MD1	0.47	20	100	4.2	26	17.5	R47
BMCA00060630R68MD1	0.68	20	100	5.5	25	15.5	R68
BMCA00060630R82MD1	0.82	20	100	8.0	24	13.0	R82
BMCA000606301R0MD1	1.0	20	100	10	22	11.0	1R0
BMCA000606301R5MD1	1.5	20	100	15	18	9.0	1R5
BMCA000606302R2MD1	2.2	20	100	20	14	8.0	2R2
BMCA000606303R3MD1	3.3	20	100	30	13.5	6.0	3R3
BMCA000606304R7MD1	4.7	20	100	40	10.0	5.5	4R7
BMCA000606306R8MD1	6.8	20	100	60	8.0	4.5	6R8
BMCA00060630100MD1	10	20	100	102	7.0	3.0	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

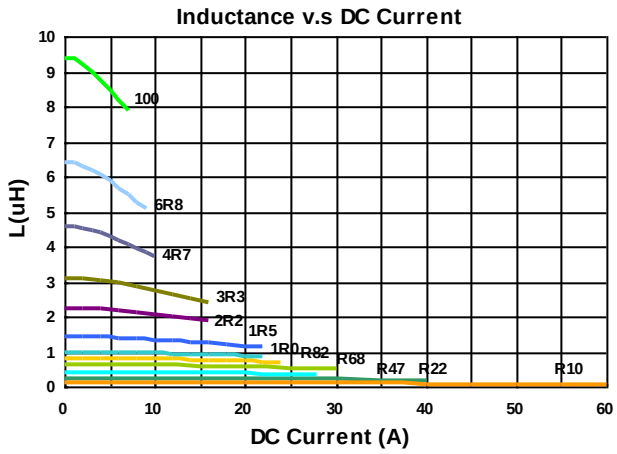
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

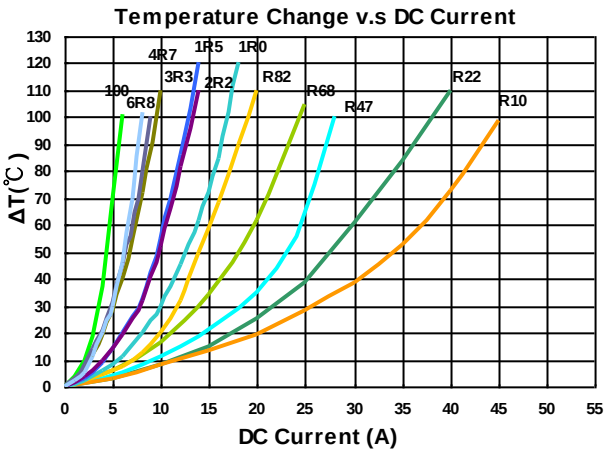
  L：WK 3260B or WK 6500P, 100KHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMCA001010401R0MD1	1.0	20	100	3.2(2.7)	36	18	1R0
BMCA001010401R5MD1	1.5	20	100	4.2(3.8)	33	16	1R5
BMCA001010402R2MA1	2.2	20	100	7(6.4)	27	12	2R2
BMCA001010403R3MA1	3.3	20	100	12(10)	23	10	3R3
BMCA001010404R7MA1	4.7	20	100	16.5(15)	17	9.5	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

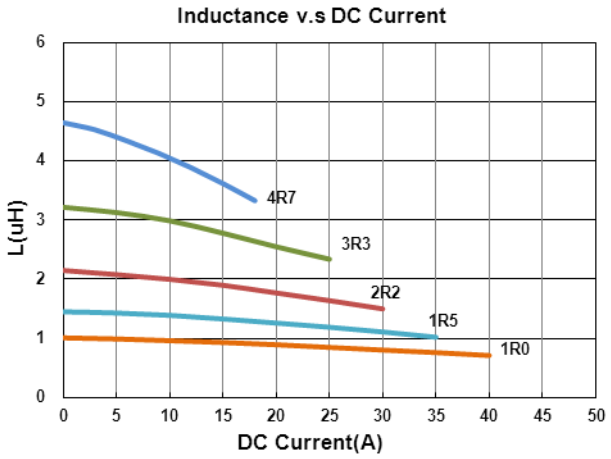
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

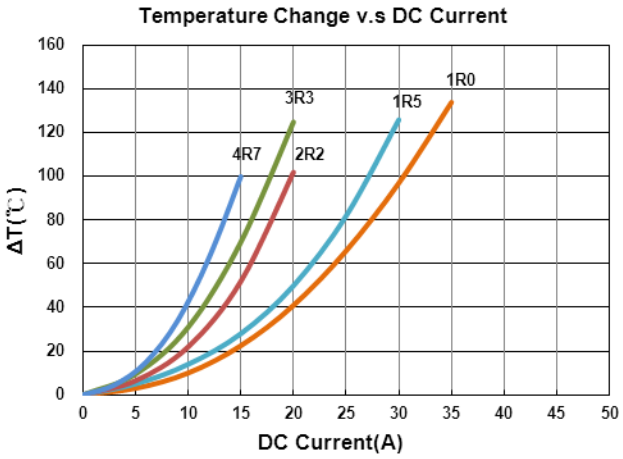
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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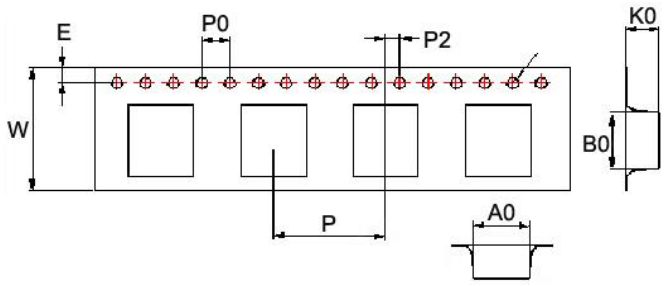
Pulse a YAGEO company

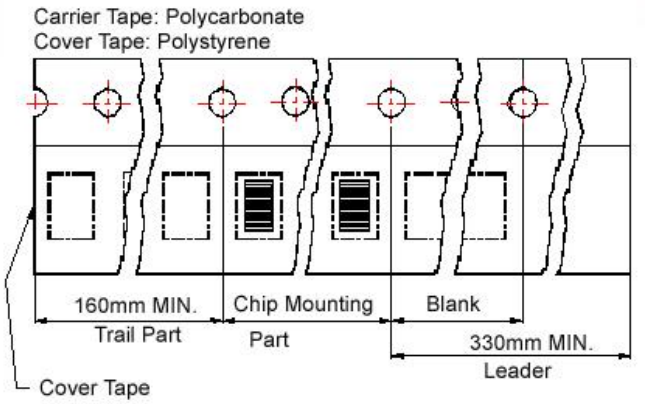
CHILISIN ELECTRONICS CORP.

Packaging Specifications

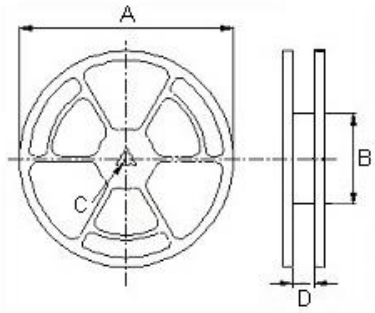
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BMCA00050512	5.5	6.0	1.5	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BMCA00060630	6.9	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BMCA00101040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500

BMMA Series

BMMA Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

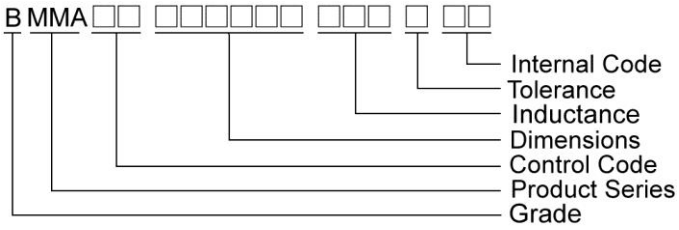
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

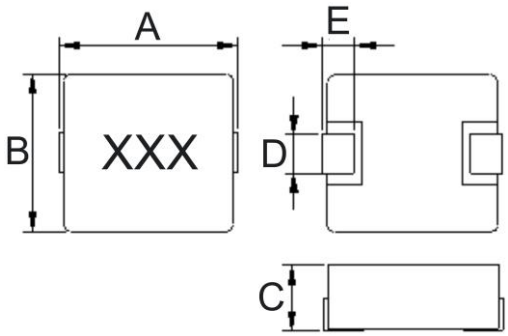
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

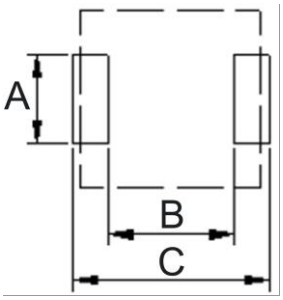
Product Identification



Shape and Dimensions



Recommended Pattern



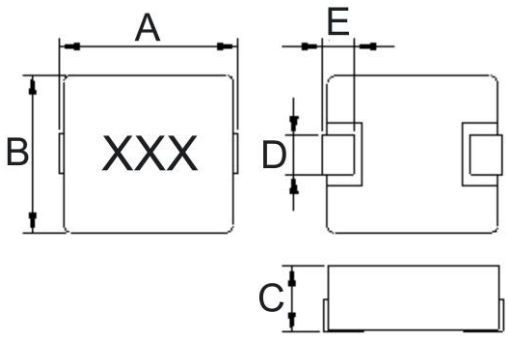
Dimensions in mm

TYPE	A	B	C	D	E
BMMA00040412-X2	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMA00040412-V1	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMA00040420-X2	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00040420-V1	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00040420-I8	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMA00050512-V1	5.49±0.25	5.18±0.22	1.2Max	2.0±0.3	1.0±0.3
BMMA00050518-X2	5.49±0.25	5.18±0.22	1.8Max	2.0±0.3	1.0±0.3
BMMA00050520-X1	5.49±0.25	5.18±0.25	2.0Max	2.0±0.3	1.02±0.3
BMMA00050520-V1	5.49±0.25	5.18±0.22	2.0Max	2.0±0.3	1.0±0.3

Dimensions in mm

TYPE	A	B	C
BMMA00040412-X2	2.5	2.2	5.2
BMMA00040412-V1	2.3	1.65	4.95
BMMA00040420-X2	2.5	2.2	5.2
BMMA00040420-V1	2.3	1.65	4.95
BMMA00040420-I8	2.3	1.65	4.95
BMMA00050512-V1	2.79	2.16	5.99
BMMA00050518-X2	2.5	2.2	5.99
BMMA00050520-X1	2.79	2.16	5.99
BMMA00050520-V1	2.79	2.16	5.99

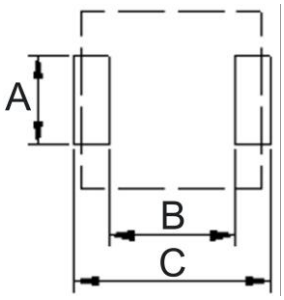
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMMA00050530-Xx	5.3Max	4.7±0.2	3.0Max	2.0±0.2	1.0±0.3
BMMA00050530-V1	5.49±0.25	5.18±0.22	3.0Max	2.0±0.3	1.0±0.3
BMMA00060618-X2	7.4Max	6.6±0.2	1.8Max	3.0±0.3	1.6±0.3
BMMA00060618-V1	6.86±0.38	6.47±0.25	1.8Max	3.18±0.3	1.3±0.3
BMMA00060624-X2	7.5Max	6.6±0.2	2.4Max	3.0±0.5	1.3±0.5
BMMA00060624-V1	6.86±0.38	6.47±0.25	2.4Max	3.18±0.3	1.3±0.3
BMMA00060630-Xx	6.95±0.35	6.6±0.2	3.0Max	3.0±0.3	1.6±0.3
BMMA00060630-V1	6.86±0.38	6.47±0.25	3.0Max	3.18±0.3	1.3±0.3
BMMA00060640	6.95±0.35	6.6±0.2	4.0Max	3.0±0.3	1.6±0.3
BMMA00060650-X1	6.95±0.35	6.6±0.2	5.0Max	3.0±0.3	1.6±0.3
BMMA00060650-X2	7.4Max	6.6±0.2	5.0Max	3.0±0.5	1.6±0.3
BMMA00060650-V1	6.86±0.38	6.47±0.25	5.0Max	3.18±0.3	1.3±0.3
BMMA00080830	8.3±0.3	8.1±0.3	3.0Max	3.0±0.3	1.5±0.3
BMMA00080840	8.3±0.3	8.1±0.3	4.0Max	3.0±0.3	1.5±0.3
BMMA00101015	11.5Max	10±0.3	1.5Max	3.0±0.5	2.0±0.5
BMMA00101030	11.5Max	10±0.3	3.0Max	3.0±0.5	2.0±0.5
BMMA00101040	11.5Max	10±0.3	4.0Max	3.0±0.5	2.0±0.5
BMMA00101040-I8	11.5Max	10±0.3	4.0Max	3.0±0.5	2.2±0.3
BMMA00101045	11.5Max	10±0.3	4.5Max	3.0±0.5	2.0±0.5
BMMA00101050	11.5Max	10±0.3	5.0Max	3.0±0.5	2.0±0.5
BMMA00131335	13.2±0.5	12.9Max	3.5Max	3.5±0.5	2.3±0.3
BMMA00131350-X1	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMA00131350-X2	13.2±0.5	12.6±0.2	5.0Max	3.5±0.5	2.3±0.3
BMMA00131350-V1	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMA00131364	13.2±0.5	12.9Max	6.4Max	3.5±0.5	2.3±0.3
BMMA00171770	17.6±0.5	17.2Max	7.0Max	11.8±0.3	2.5±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMMA00050530-Xx	2.5	3.0	7.0
BMMA00050530-V1	2.79	2.16	5.99
BMMA00060618-X2	3.5	3.7	8.4
BMMA00060618-V1	3.43	3.71	7.37
BMMA00060624-X2	3.5	3.7	8.4
BMMA00060624-V1	3.43	3.71	7.37
BMMA00060630-Xx	3.5	3.7	8.4
BMMA00060630-V1	3.43	3.71	7.37
BMMA00060640	3.5	3.7	8.4
BMMA00060650-Xx	3.5	3.7	8.4
BMMA00060650-V1	3.43	3.71	7.37
BMMA00080830	3.5	4.2	9
BMMA00080840	3.5	4.2	9
BMMA00101015	4.1	5.4	13.6
BMMA00101030	4.1	5.4	13.6
BMMA00101040-Xx	4.1	5.4	13.6
BMMA00101040-V1	4	6	13
BMMA00101040-I8	4.1	5.4	13.6
BMMA00101045	4.1	5.4	13.6
BMMA00101050	4.1	5.4	13.6
BMMA00131335-X1	5	8	14.5
BMMA00131335-V1	4.95	7.87	13.76
BMMA00131350	5	8	14.5
BMMA00131350_V1	4.95	7.87	13.76
BMMA00131364	4.95	7.87	13.76
BMMA00171770	12.8	11.2	18.2

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040412R47MX2	0.47	20	100	21(19)	6.8	6	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

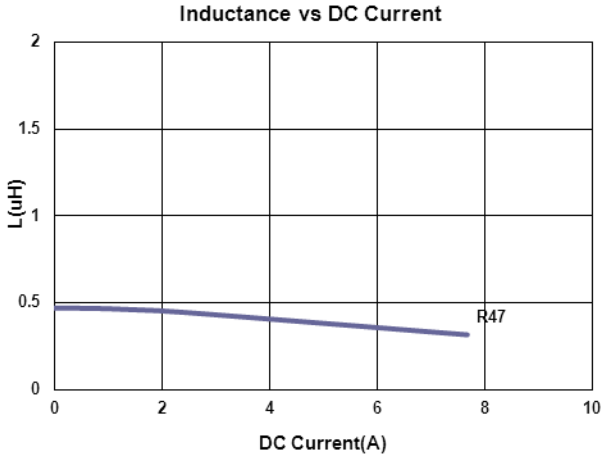
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

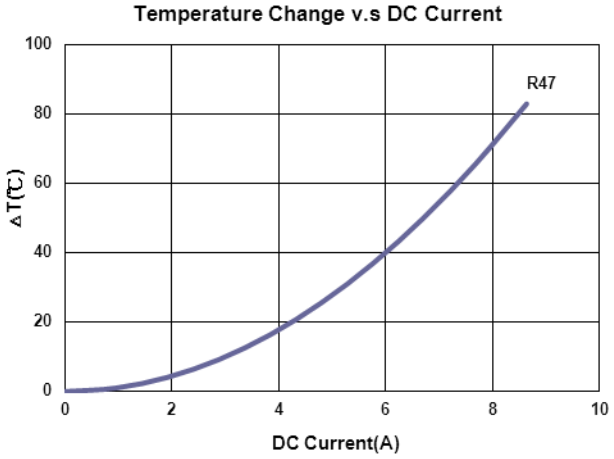
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA0004041247NMV1	0.047	20	100	3.75(3.25)	32	13	47N
BMMA00040412R10MV1	0.10	20	100	6(5.5)	25	11.5	R10
BMMA00040412R22MV1	0.22	20	100	12(11)	20	8.5	R22
BMMA00040412R47MV1	0.47	20	100	22(20)	13	5	R47
BMMA00040412R68MV1	0.68	20	100	31.4(29.3)	9.3	4.9	R68
BMMA000404121R0MV1	1.0	20	100	52.5(50)	8.5	4	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

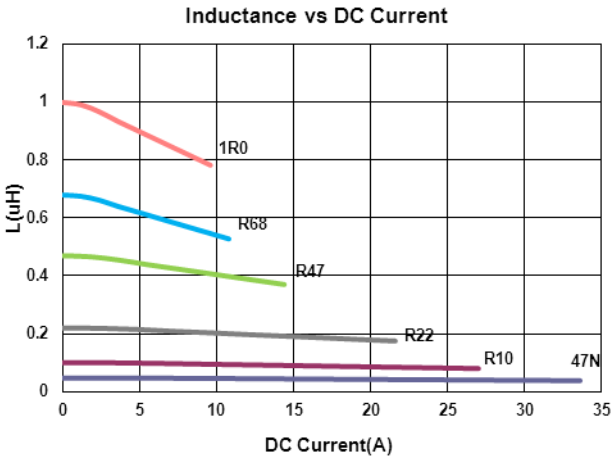
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

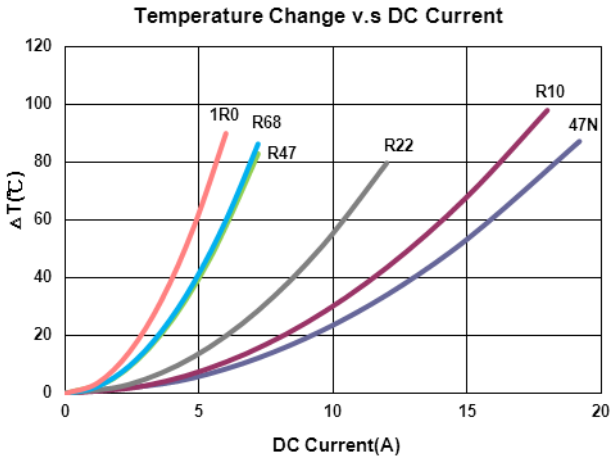
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R10MX2	0.10	20	100	4(3.5)	22	12	R10
BMMA00040420R22MX2	0.22	20	100	6.6(6)	12.5	9	R22
BMMA00040420R47MX2	0.47	20	100	14(12.5)	9.5	7	R47
BMMA00040420R56MX2	0.56	20	100	16(14)	10	6.5	R56
BMMA00040420R68MX2	0.68	20	100	18(16)	9	6	R68
BMMA000404201R0MX2	1.0	20	100	27(24)	7	4.5	1R0
BMMA000404201R5MX2	1.5	20	100	43(35)	6	4	1R5
BMMA000404202R2MX2	2.2	20	100	58(52)	5	3	2R2
BMMA000404203R3MX2	3.3	20	100	87(74)	4	2.5	3R3
BMMA000404204R7MX2	4.7	20	100	105(92)	3	2.2	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

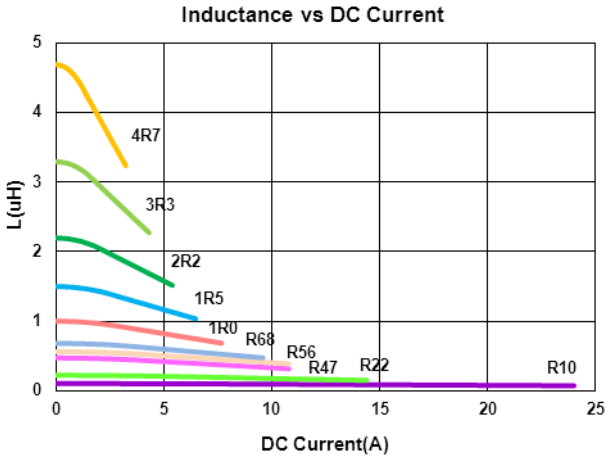
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

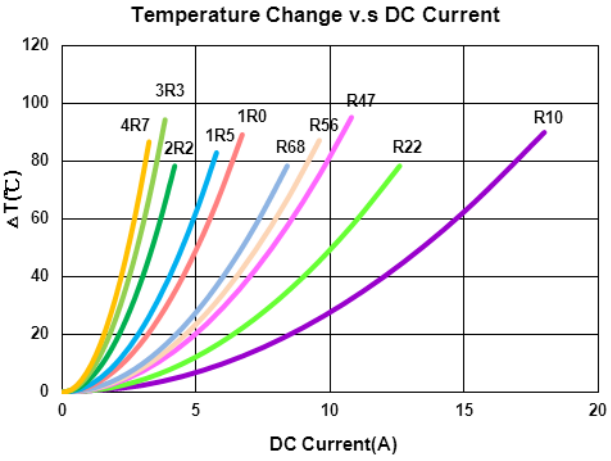
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R10MV1	0.10	20	100	5(4.5)	35	16	R10
BMMA00040420R22MV1	0.22	20	100	8(7.3)	24	13	R22
BMMA00040420R47MV1	0.47	20	100	18(16)	11.5	5.6	R47
BMMA000404201R0MV1	1.0	20	100	37(33)	8.5	3.75	1R0
BMMA000404202R2MV1	2.2	20	100	90(80)	6	2.85	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

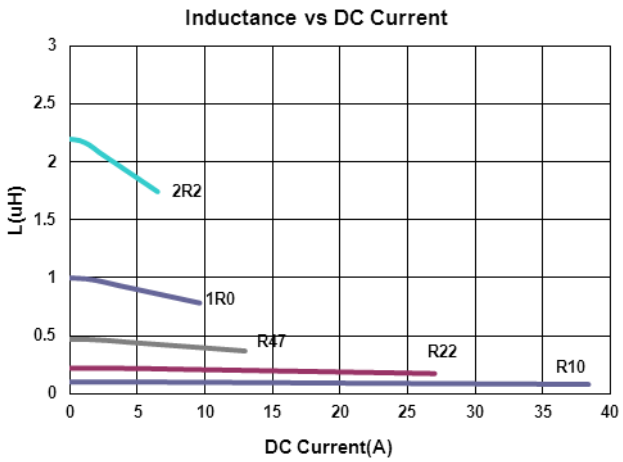
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

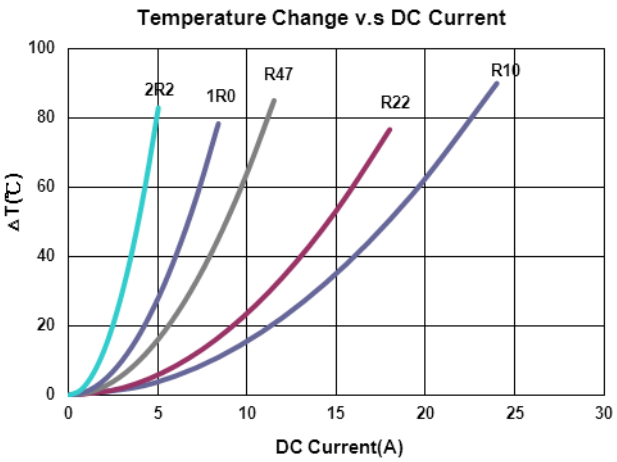
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00040420R47MI8	0.47	20	100	12.7	12	8	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

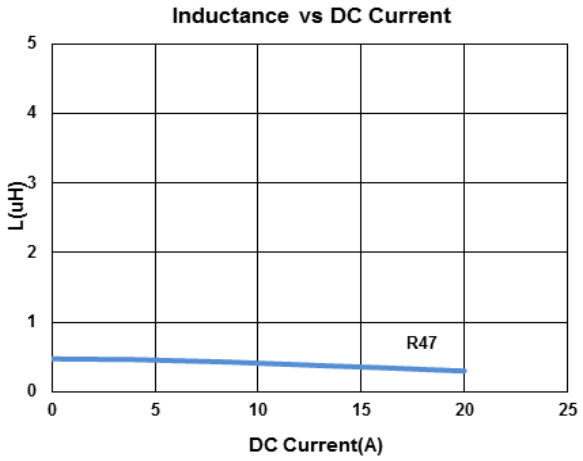
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

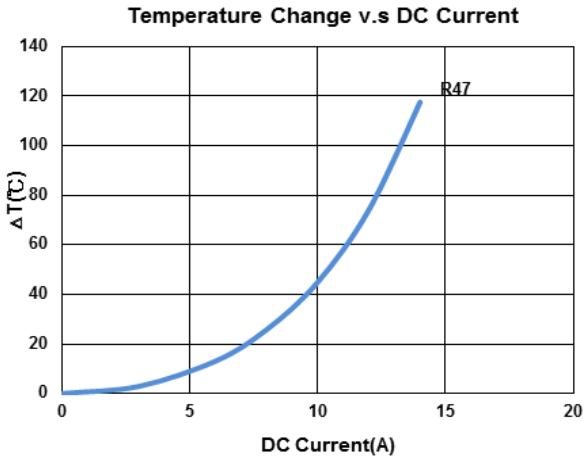
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505121R0MV1	1.0	20	100	46.5(44.3)	10.2	4.4	1R0
BMMA000505122R2MV1	2.2	20	100	77.3(73.6)	6	3.4	2R2
BMMA000505123R3MV1	3.3	20	100	103(98.4)	5	2.8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

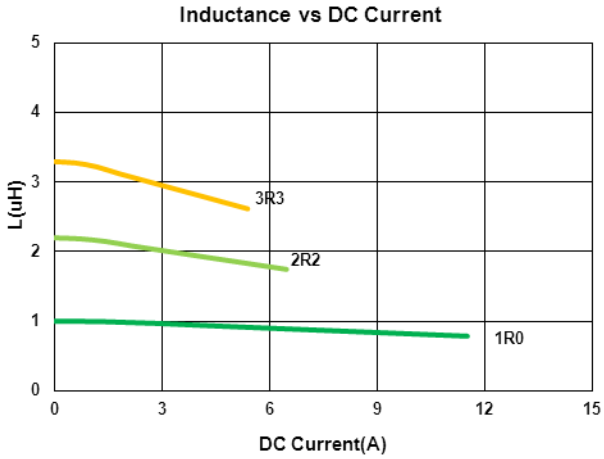
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

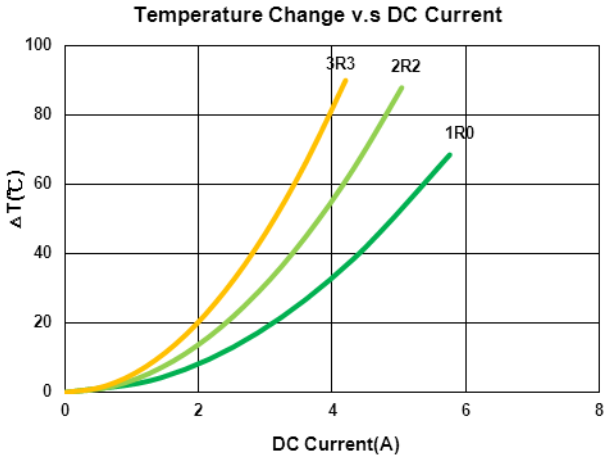
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505181R0MX2	1.0	20	100	17(15)	9	8	1R0
BMMA000505184R7MX2	4.7	20	100	85(78)	4	3.5	4R7
BMMA000505186R8MX2	6.8	20	100	120(107)	3.4	2.8	6R8
BMMA00050518100MX2	10	20	100	155(140)	3	2.5	100

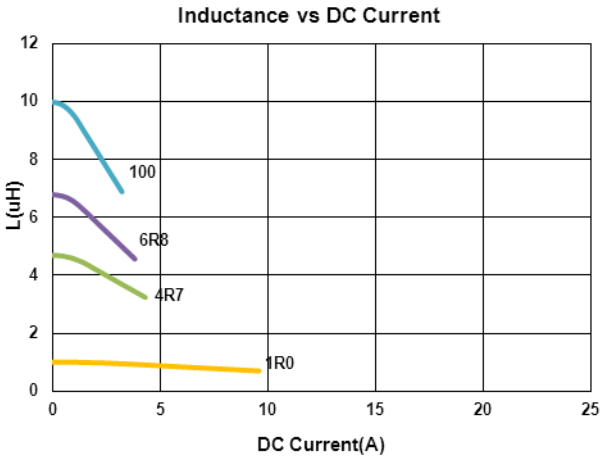
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

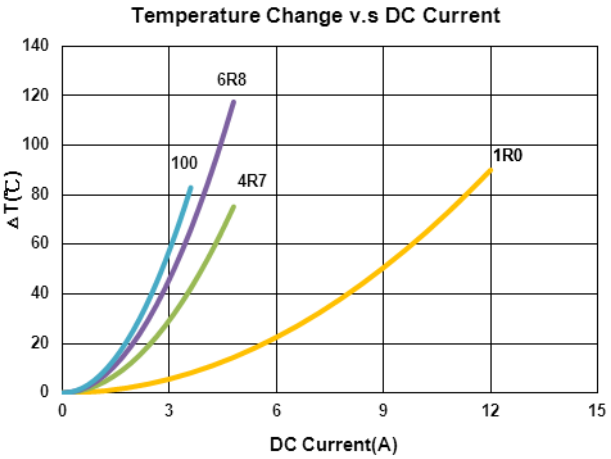
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA000505201R0MX1	1.0	20	100	20(18.9)	16	7	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

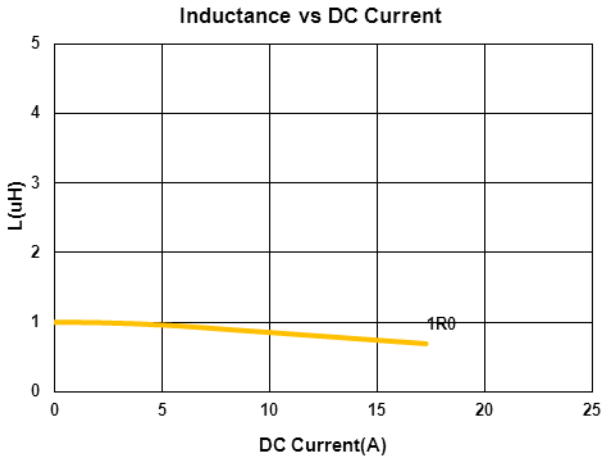
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

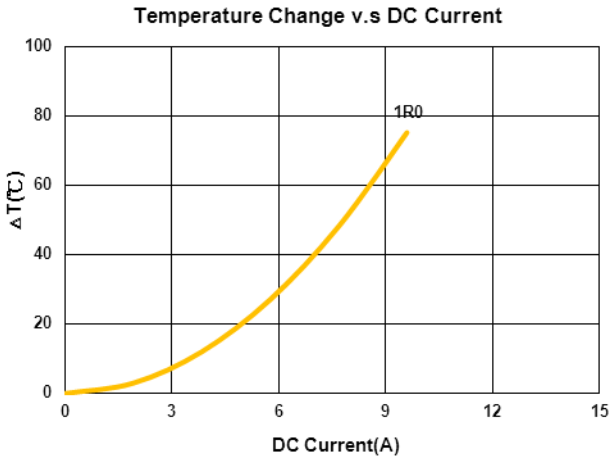
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050520R10MV1	0.10	20	100	3.9(3.6)	45	17	R10
BMMA00050520R33MV1	0.33	20	100	8.2(7.6)	25	12	R33
BMMA00050520R47MV1	0.47	20	100	8.8(8.1)	21	11.5	R47
BMMA000505201R0MV1	1.0	20	100	20(18.9)	16	7	1R0
BMMA000505202R2MV1	2.2	20	100	50.1(45.6)	12.5	4.2	2R2
BMMA000505203R3MV1	3.3	20	100	85.5(79.2)	8.5	3.3	3R3
BMMA000505204R7MV1	4.7	20	100	116.6(108)	5	2.8	4R7
BMMA000505205R6MV1	5.6	20	100	122(113)	4.5	2.5	5R6
BMMA000505206R8MV1	6.8	20	100	150(139)	4.3	2.4	6R8
BMMA00050520100MV1	10	20	100	199(184)	4	2.3	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

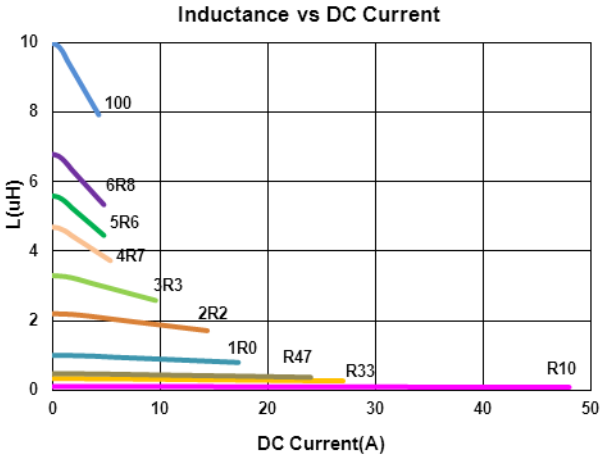
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

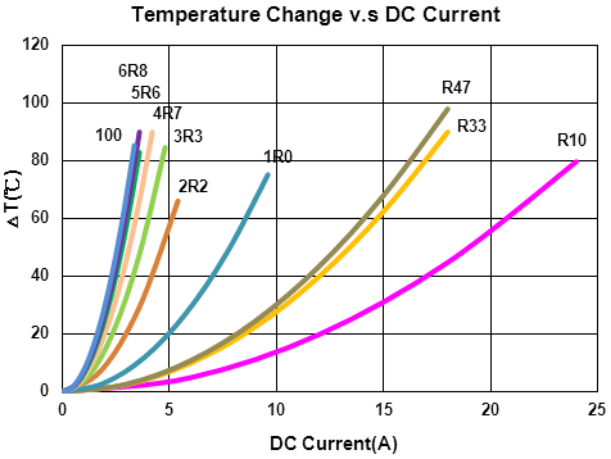
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R68MX1	0.68	20	100	12(11)	14	8.5	R68
BMMA000505301R0MX1	1.0	20	100	14(13)	11	7	1R0
BMMA000505301R2MX1	1.2	20	100	16(15)	10.5	6.5	1R2
BMMA000505301R5MX1	1.5	20	100	25(20)	10	6	1R5
BMMA000505302R2MX1	2.2	20	100	35(29)	9	5.5	2R2
BMMA000505303R3MX1	3.3	20	100	38(32)	7	5	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

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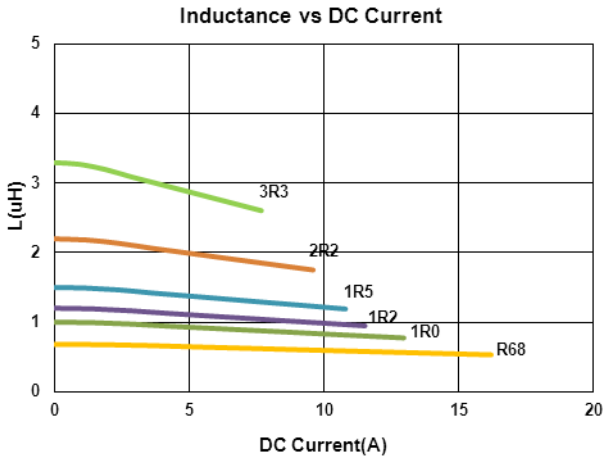
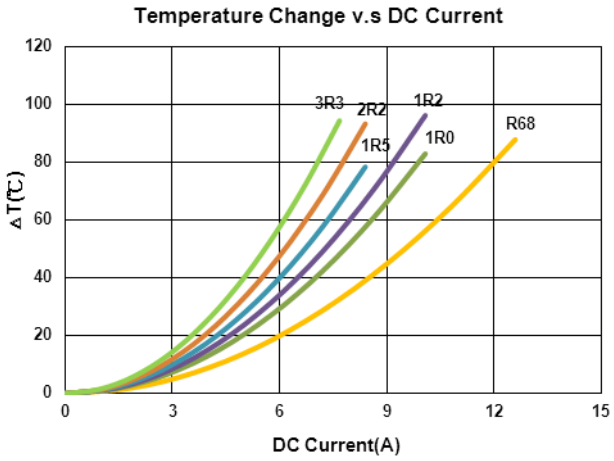
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R22MX2	0.22	20	100	3.9(3.5)	14.5	21	R22
BMMA00050530R35MX2	0.35	20	100	5(4.5)	9	16.5	R35
BMMA00050530R47MX2	0.47	20	100	8.5(7.4)	12	13	R47
BMMA00050530R68MX2	0.68	20	100	12(11)	14	8.5	R68
BMMA000505301R0MX2	1.0	20	100	14(13)	11	7	1R0
BMMA000505301R2MX2	1.2	20	100	16(15)	11	6.5	1R2
BMMA000505301R5MX2	1.5	20	100	25(20)	10	6	1R5
BMMA000505302R2MX2	2.2	20	100	35(29)	9	5.5	2R2
BMMA000505303R3MX2	3.3	20	100	38(34)	7	5	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Withstand voltage: 25V DC
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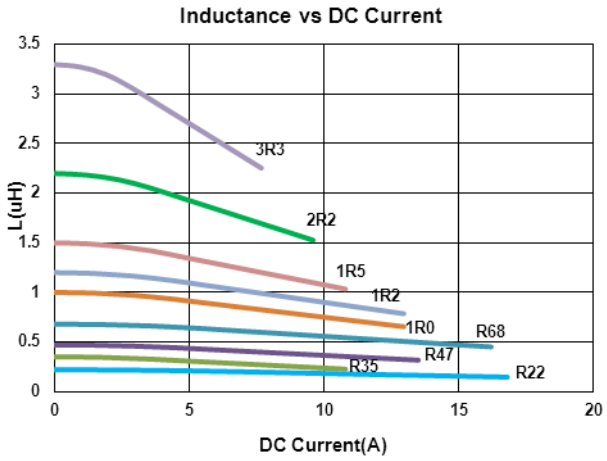

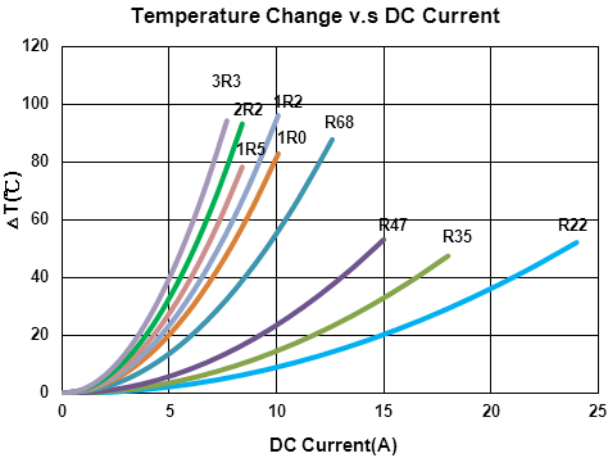

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00050530R10MV1	0.10	20	100	3.16(3)	27	23	R10
BMMA00050530R22MV1	0.22	20	100	4.52(4.3)	21	15.5	R22
BMMA00050530R33MV1	0.33	20	100	5.56(5.3)	19	13.7	R33
BMMA00050530R47MV1	0.47	20	100	7.04(6.7)	16	12.2	R47
BMMA00050530R68MV1	0.68	20	100	8.96(8.53)	13.5	10.2	R68
BMMA00050530R82MV1	0.82	20	100	11.9(11.3)	13	9.3	R82
BMMA000505301R0MV1	1.0	20	100	13.7(13.1)	12	9.2	1R0
BMMA000505301R5MV1	1.5	20	100	20.7(19.7)	11	7.2	1R5
BMMA000505302R2MV1	2.2	20	100	29.2(27.8)	10	5.8	2R2
BMMA000505303R3MV1	3.3	20	100	54.7(52.1)	8.5	5	3R3
BMMA000505304R7MV1	4.7	20	100	77.5(73.8)	8.2	3.5	4R7
BMMA000505305R6MV1	5.6	20	100	108(103)	4.1	3	5R6
BMMA00050530100MV1	10	20	100	158(152)	4	2.5	100
BMMA00050530150MV1	15	20	100	265(252)	2.5	1.9	150

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

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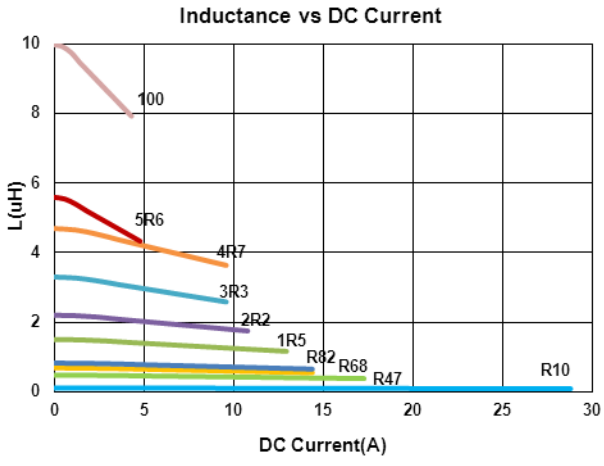

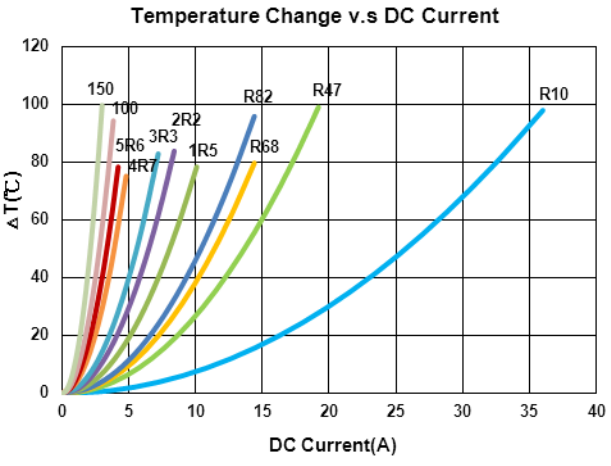

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060618R10MX2	0.10	20	100	2.5(2)	45	18	R10
BMMA00060618R22MX2	0.22	20	100	5.2(4.5)	29	14	R22
BMMA00060618R33MX2	0.33	20	100	6.8(5.2)	22	12	R33
BMMA00060618R47MX2	0.47	20	100	8.4(7.3)	18	11	R47
BMMA00060618R68MX2	0.68	20	100	12.7(10.8)	17	9	R68
BMMA000606181R0MX2	1.0	20	100	17(14.5)	14	7	1R0
BMMA000606181R5MX2	1.5	20	100	26(20)	12	6.5	1R5
BMMA000606182R0MX2	2.0	20	100	32(28)	11	6	2R0
BMMA000606182R2MX2	2.2	20	100	35(31)	13	6	2R2
BMMA000606183R3MX2	3.3	20	100	60(56)	10	3.5	3R3
BMMA000606186R8MX2	6.8	20	100	110(101)	3.5	2.8	6R8

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- Withstand voltage: 25V DC
- Measure Equipment：

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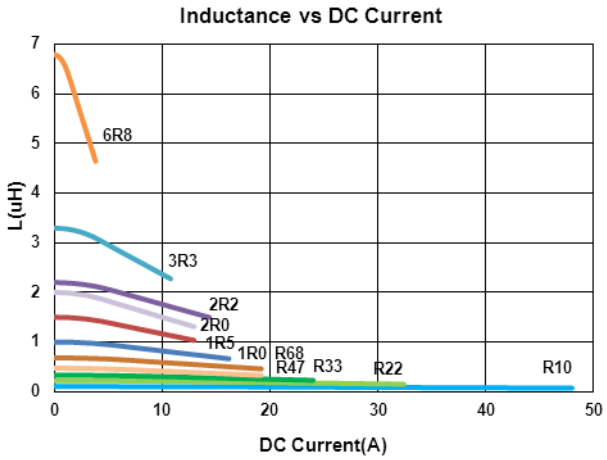
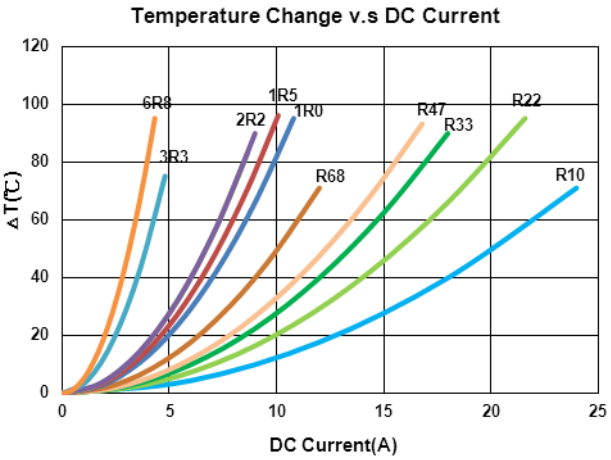
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060618R10MV1	0.10	20	100	3.5(3)	40	18	R10
BMMA00060618R15MV1	0.15	20	100	5.2(4.7)	38	15	R15
BMMA00060618R22MV1	0.22	20	100	5.7(5.3)	26	14	R22
BMMA00060618R33MV1	0.33	20	100	7(6.6)	18	12	R33
BMMA00060618R47MV1	0.47	20	100	9.3(8.4)	18	11	R47
BMMA00060618R68MV1	0.68	20	100	13.9(12.7)	17	9	R68
BMMA00060618R82MV1	0.82	20	100	15.9(13.8)	17	8	R82
BMMA000606181R0MV1	1.0	20	100	18.3(17.5)	14	7	1R0
BMMA000606181R5MV1	1.5	20	100	34(32.6)	11.5	4	1R5
BMMA000606182R2MV1	2.2	20	100	46(40.3)	13	3.75	2R2
BMMA000606182R5MV1	2.5	20	100	52.4(49.9)	10.4	3.5	2R5
BMMA000606183R3MV1	3.3	20	100	60.1(56.2)	10	3.25	3R3
BMMA000606184R7MV1	4.7	20	100	78(76.6)	8	3	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Withstand voltage: 25V DC
- Measure Equipment：

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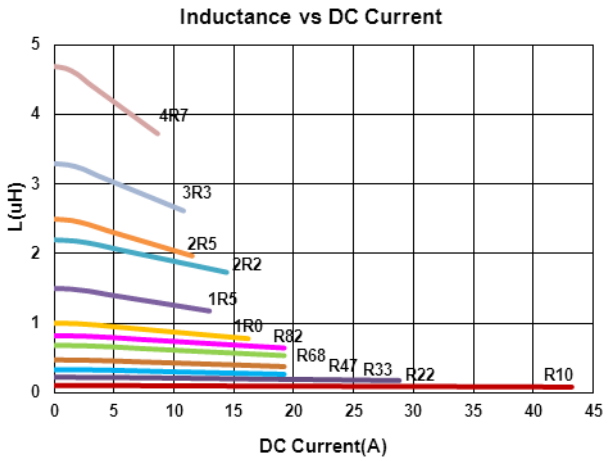
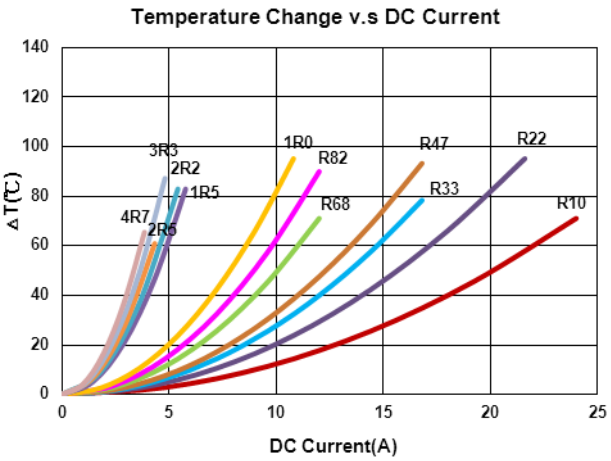
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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BMMA00060624R10MX2	0.10	20	100	1.7(1.5)	70	30	R10
BMMA00060624R20MX2	0.20	20	100	2.8(2.2)	50	25	R20
BMMA00060624R33MX2	0.33	20	100	4.1(3.5)	24.5	18	R33
BMMA00060624R47MX2	0.47	20	100	5.1(4.5)	22	15	R47
BMMA000606241R0MX2	1.0	20	100	13.5(11.2)	16	9	1R0
BMMA000606241R5MX2	1.5	20	100	20(17)	15	9	1R5
BMMA000606242R2MX2	2.2	20	100	28(23)	14	7	2R2
BMMA000606243R3MX2	3.3	20	100	39(31)	13	5.5	3R3
BMMA000606244R7MX2	4.7	20	100	50(41)	10	5	4R7
BMMA000606246R8MX2	6.8	20	100	70(57)	6	4	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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  Irms：CHROMA 1810

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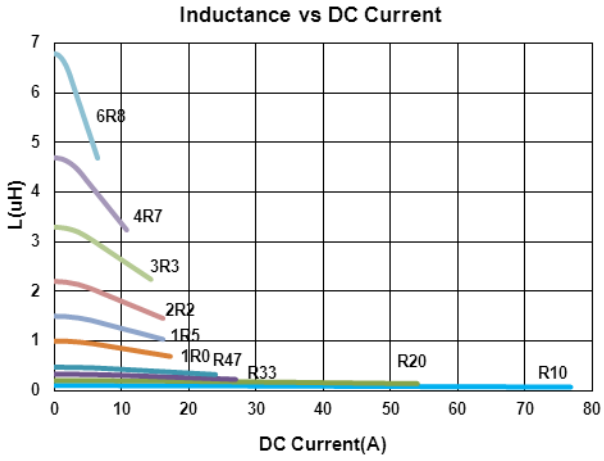

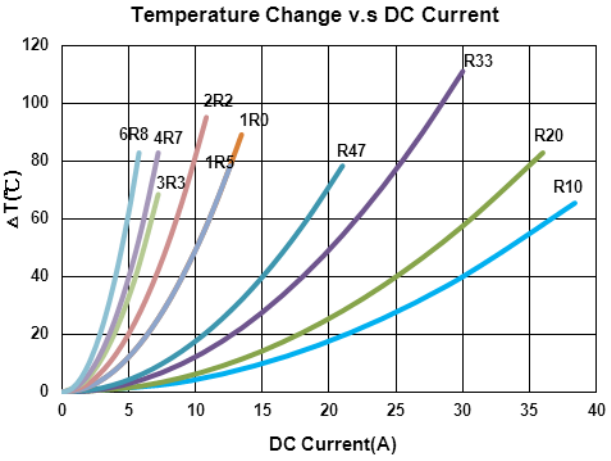

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BMMA00060624R10MV1	0.10	20	100	1.7(1.5)	50	30	R10
BMMA00060624R22MV1	0.22	20	100	3.2(2.9)	34	21	R22
BMMA00060624R33MV1	0.33	20	100	4.1(3.7)	22	18	R33
BMMA00060624R47MV1	0.47	20	100	6.5(6)	21	13.5	R47
BMMA00060624R68MV1	0.68	20	100	9.4(8.7)	18	11	R68
BMMA00060624R82MV1	0.82	20	100	11.8(10.6)	17	10	R82
BMMA000606241R0MV1	1.0	20	100	14.2(13.1)	16	9	1R0
BMMA000606241R5MV1	1.5	20	100	21.2(18.5)	15	7.5	1R5
BMMA000606242R2MV1	2.2	20	100	34(28)	14	6.5	2R2
BMMA000606243R3MV1	3.3	20	100	51.6(36.5)	13	5	3R3
BMMA000606244R7MV1	4.7	20	100	63(45.2)	10	4.5	4R7
BMMA000606246R8MV1	6.8	20	100	95(72.5)	9	3.5	6R8
BMMA000606248R2MV1	8.2	20	100	106(84.2)	8	3	8R2
BMMA00060624100MV1	10	20	100	105(102)	7	3	100

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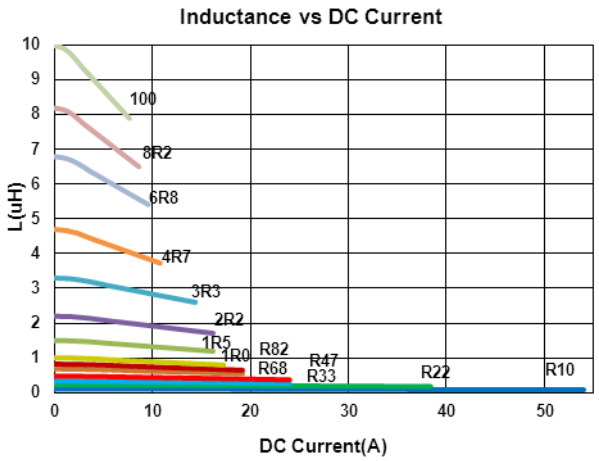
- Withstand voltage: 25V DC
- Measure Equipment：

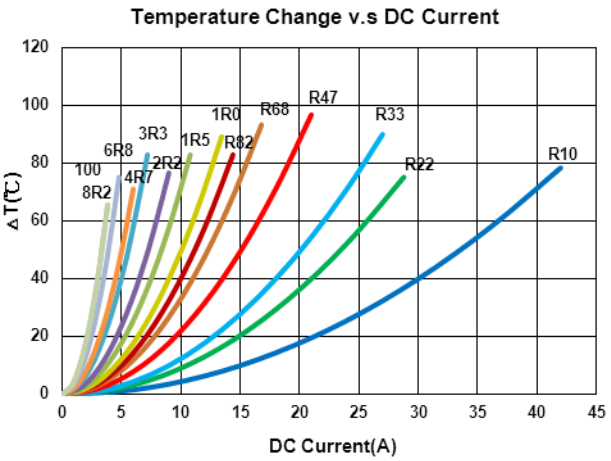
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MX1	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R22MX1	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MX1	0.33	20	100	3.9(3.5)	30	20	R33
BMMA00060630R47MX1	0.47	20	100	4.2(4)	26	17.5	R47
BMMA00060630R56MX1	0.56	20	100	5(4.7)	25.5	16.5	R56
BMMA00060630R68MX1	0.68	20	100	5.5(5)	25	15.5	R68
BMMA000606301R0MX1	1.0	20	100	10(9)	22	11	1R0
BMMA000606301R2MX1	1.2	20	100	12(10)	20	10	1R2
BMMA000606301R5MX1	1.5	20	100	15(14)	18	9	1R5
BMMA000606302R2MX1	2.2	20	100	20(18)	14	8	2R2
BMMA000606303R3MX1	3.3	20	100	30(28)	13.5	6	3R3
BMMA000606304R7MX1	4.7	20	100	40(37)	10	5.5	4R7
BMMA000606306R8MX1	6.8	20	100	60(54)	8	4.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

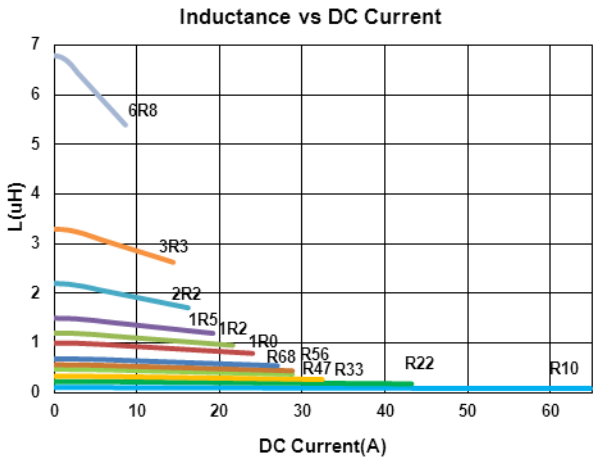
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC.
- Measure Equipment：

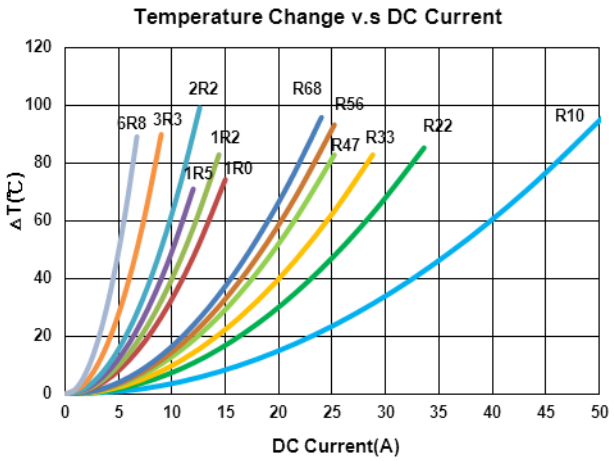
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MX2	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R15MX2	0.15	20	100	2.5(1.9)	45	30	R15
BMMA00060630R20MX2	0.20	20	100	3(2.4)	41	24	R20
BMMA00060630R22MX2	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MX2	0.33	20	100	3.5(3)	25	21	R33
BMMA00060630R36MX2	0.36	20	100	3.9(3.3)	26	20	R36
BMMA00060630R47MX2	0.47	20	100	4.1(3.5)	20	18	R47
BMMA00060630R56MX2	0.56	20	100	4.5(3.9)	18	16.5	R56
BMMA00060630R68MX2	0.68	20	100	5(4.5)	17	16	R68
BMMA00060630R82MX2	0.82	20	100	7.5(7)	16	14	R82
BMMA000606301R5MX2	1.5	20	100	12.1(10.6)	14	10	1R5
BMMA000606303R3MX2	3.3	20	100	28(25)	10	6.5	3R3
BMMA000606304R7MX2	4.7	20	100	35(32.5)	6.5	5.5	4R7
BMMA000606305R6MX2	5.6	20	100	42(39)	6	5.5	5R6
BMMA000606306R8MX2	6.8	20	100	60(54)	8	4.5	6R8
BMMA000606308R2MX2	8.2	20	100	60(54)	6	4.5	8R2
BMMA00060630100MX2	10	200	100	68(62)	5.5	4	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
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- Measure Equipment：

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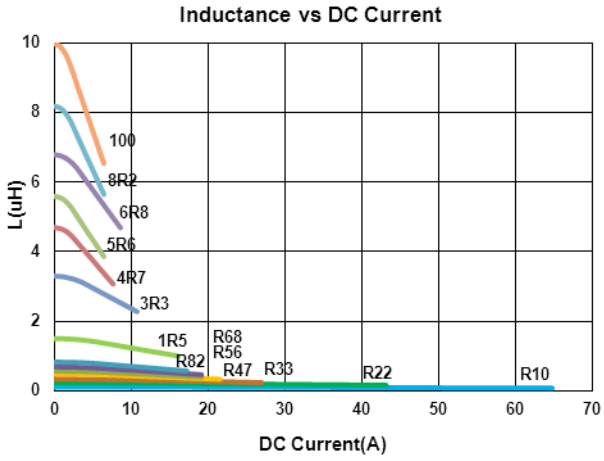
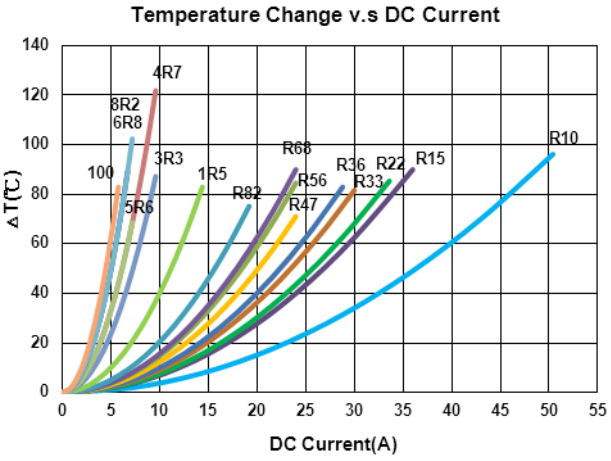
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060630R10MV1	0.10	20	100	1.7(1.5)	60	32.5	R10
BMMA00060630R15MV1	0.15	20	100	2.5(1.9)	52	26	R15
BMMA00060630R20MV1	0.20	20	100	3(2.4)	41	24	R20
BMMA00060630R22MV1	0.22	20	100	2.8(2.5)	40	23	R22
BMMA00060630R33MV1	0.33	20	100	3.9(3.5)	30	20	R33
BMMA00060630R47MV1	0.47	20	100	4.2(4)	26	17.5	R47
BMMA00060630R68MV1	0.68	20	100	5.5(5)	25	15.5	R68
BMMA00060630R82MV1	0.82	20	100	8(6.7)	24	13	R82
BMMA000606301R0MV1	1.0	20	100	10(9)	22	11	1R0
BMMA000606301R5MV1	1.5	20	100	15(14)	18	9	1R5
BMMA000606302R2MV1	2.2	20	100	20(18)	14	8	2R2
BMMA000606303R3MV1	3.3	20	100	30(28)	13.5	6	3R3
BMMA000606304R7MV1	4.7	20	100	40(37)	10	5.5	4R7
BMMA000606306R8MV1	6.8	20	100	60(54)	8	4.5	6R8
BMMA000606308R2MV1	8.2	20	100	68(64)	7.5	4	8R2
BMMA00060630100MV1	10	20	100	105(102)	7	3	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

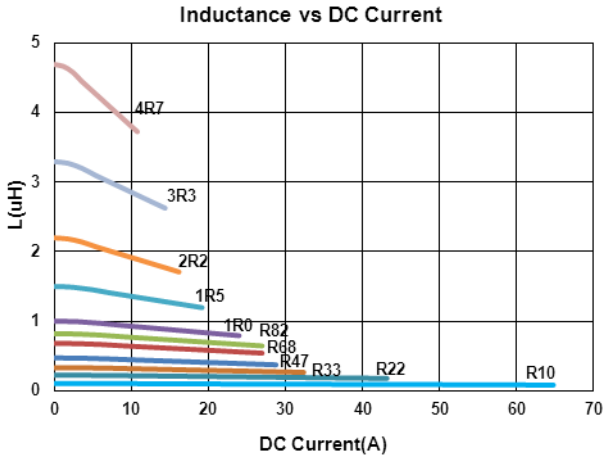
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC.
- Measure Equipment：

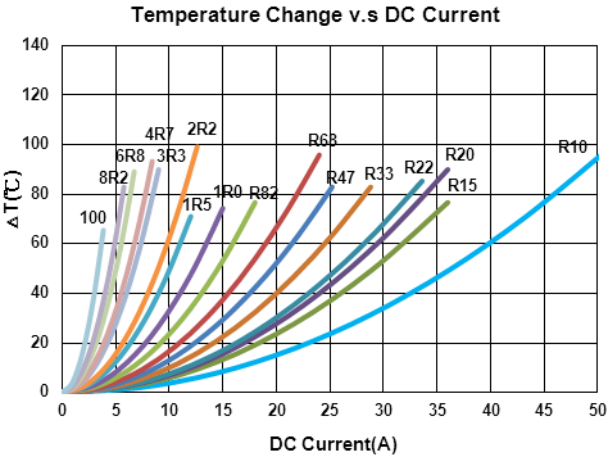
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA00060640R36MX1	0.36	20	100	2.3(1.8)	32	23	R36

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

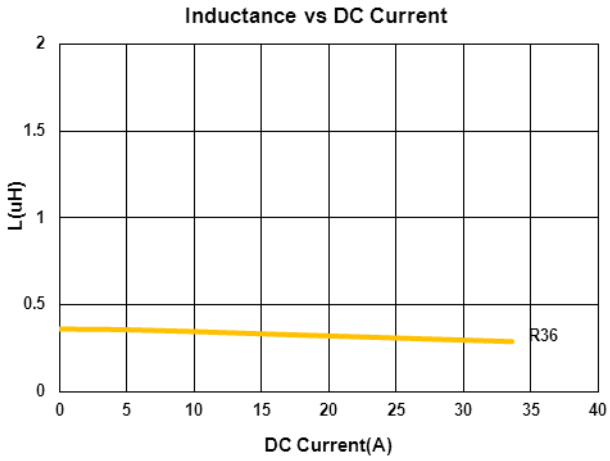
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

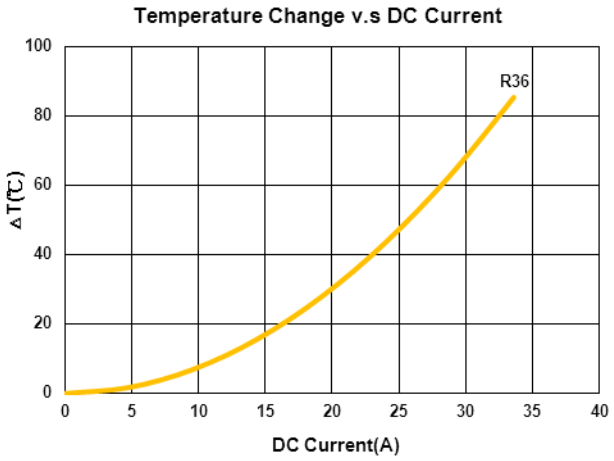
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA000606403R3MX2	3.3	20	100	23(21)	13	7	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

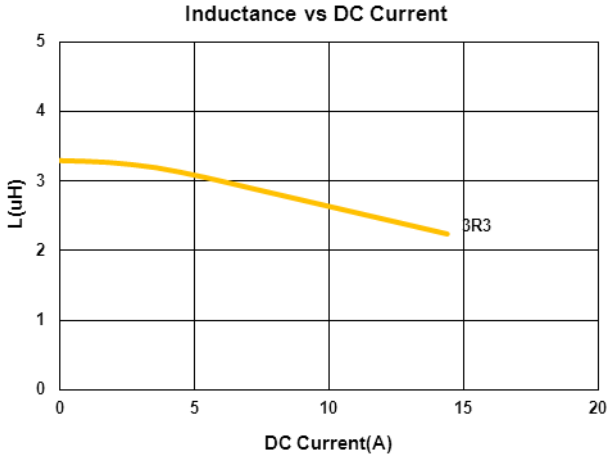
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

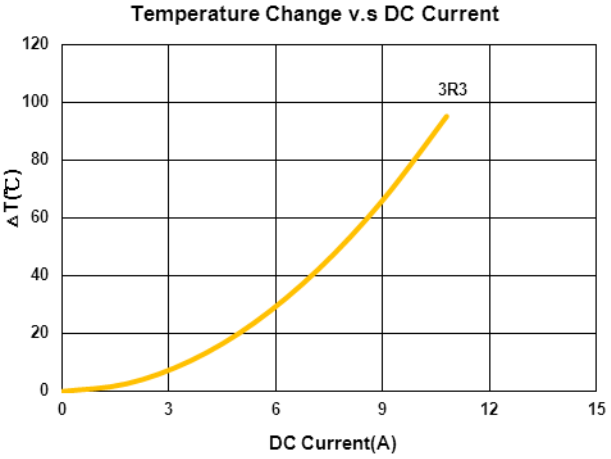
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms(A) (A)Typ.	Marking
BMMA00060650R22MX1	0.22	20	100	1.4(1.2)	50	30	R22
BMMA00060650R47MX1	0.47	20	100	3.9(3.5)	30	20	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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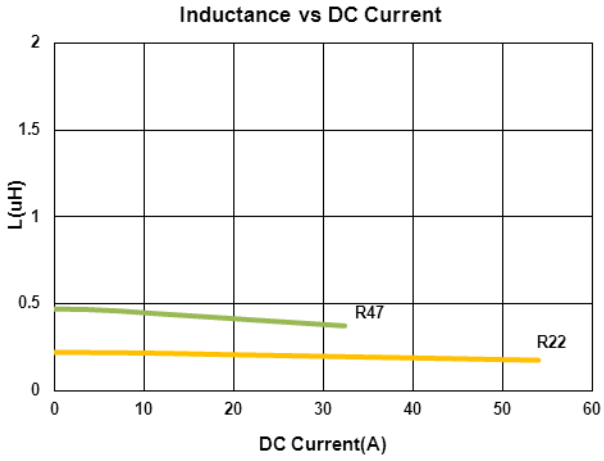
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

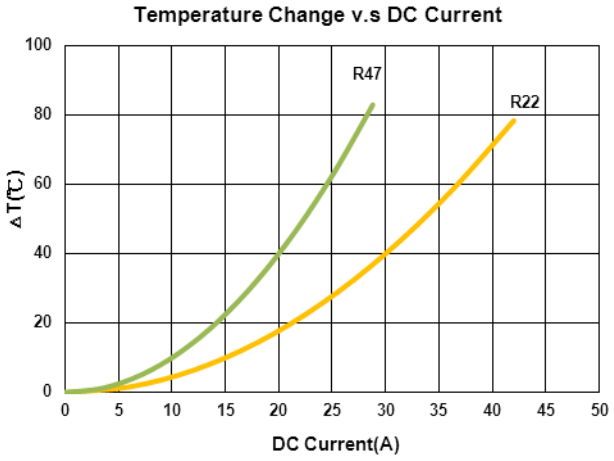
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060650R36MX2	0.36	20	100	3.1(2.7)	25	21	R36
BMMA00060650R68MX2	0.68	20	100	4.2(3.9)	16	18	R68
BMMA000606501R0MX2	1.0	20	100	6.5(5.6)	15	13	1R0
BMMA000606501R5MX2	1.5	20	100	7.5(6.7)	12	11	1R5
BMMA000606502R2MX2	2.2	20	100	12.5(11.2)	12	8	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Measure Equipment：

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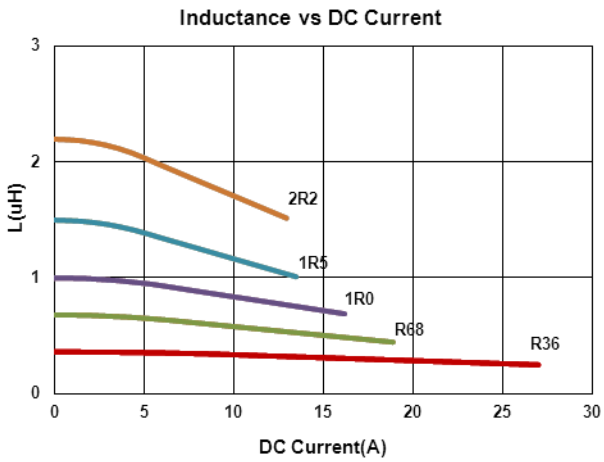

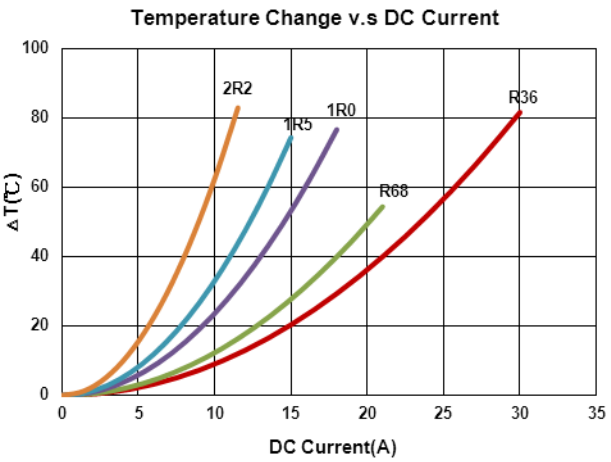

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00060650R56MV1	0.56	20	100	3.6(3.4)	12	20	R56
BMMA00060650R68MV1	0.68	20	100	4.5(4.2)	11.5	18	R68
BMMA00060650R82MV1	0.82	20	100	4.9(4.6)	13	16.5	R82
BMMA000606501R0MV1	1.0	20	100	6.5(5.6)	15	13	1R0
BMMA000606501R5MV1	1.5	20	100	9(8.6)	12	12	1R5
BMMA000606502R2MV1	2.2	20	100	13.6(13)	10	10	2R2
BMMA000606503R3MV1	3.3	20	100	20.9(19.9)	8	8	3R3
BMMA000606504R7MV1	4.7	20	100	30.3(28.9)	7	6.5	4R7
BMMA000606505R6MV1	5.6	20	100	34.4(32.7)	7	6	5R6
BMMA000606506R8MV1	6.8	20	100	44.6(42.5)	5.5	5.5	6R8
BMMA000606508R2MV1	8.2	20	100	45.6(43.5)	5.5	5.5	8R2
BMMA00060650100MV1	10	20	100	71.3(67.9)	4.5	4.5	100

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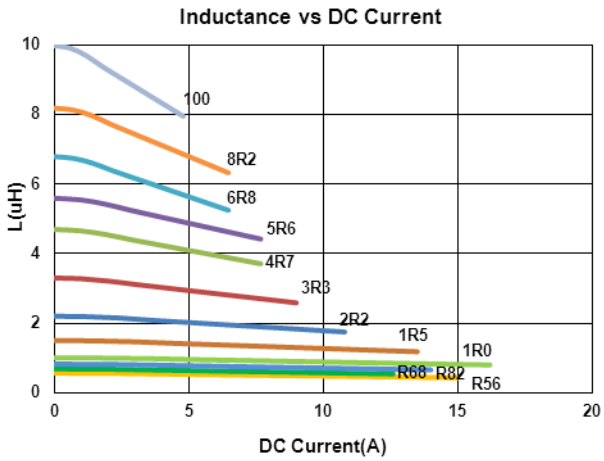

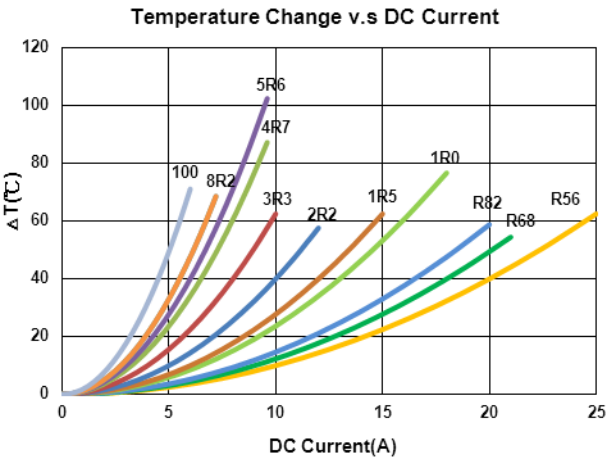

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00080830R22MV1	0.22	20	100	1.61(1.5)	43	32	R22
BMMA00080830R47MV1	0.47	20	100	3.33(3.11)	35	21.5	R47
BMMA000808301R0MV1	1.0	20	100	8.35(7.8)	29	13.7	1R0
BMMA000808301R5MV1	1.5	20	100	13.3(12.4)	24	11	1R5
BMMA000808304R7MV1	4.7	20	100	34.2(32)	10.5	6.6	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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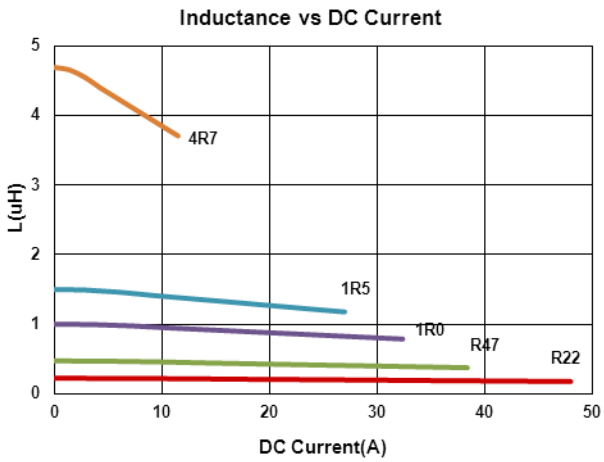

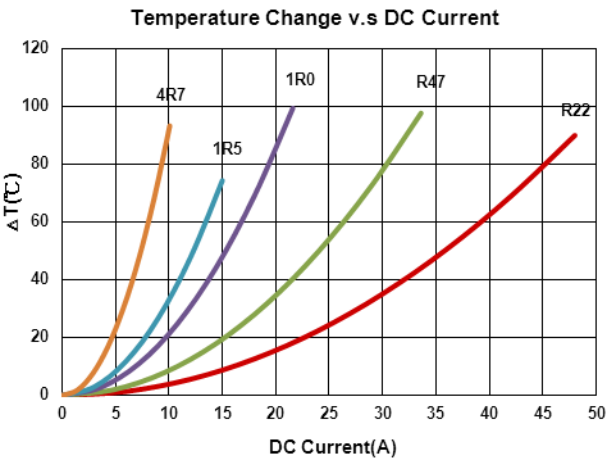

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00080840R22MV1	0.22	20	100	1.68(1.57)	34	30.7	R22
BMMA00080840R47MV1	0.47	20	100	2.62(2.45)	31.5	25	R47
BMMA00080840R68MV1	0.68	20	100	3.67(3.43)	24.5	21	R68
BMMA000808401R0MV1	1.0	20	100	5.78(5.4)	24	18	1R0
BMMA000808402R2MV1	2.2	20	100	13.7(12.8)	23	10.5	2R2
BMMA000808404R7MV1	4.7	20	100	32(29.9)	15	7.25	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

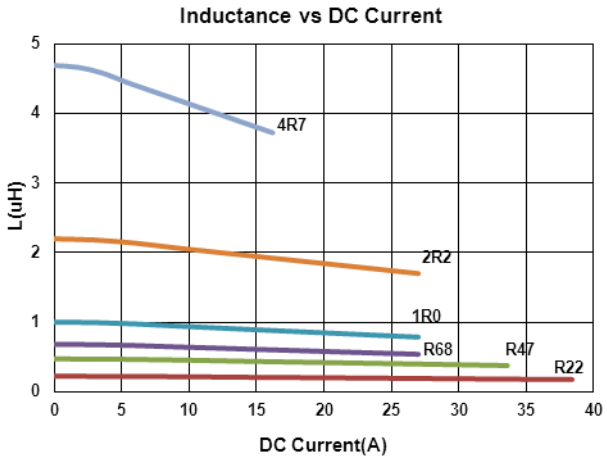
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

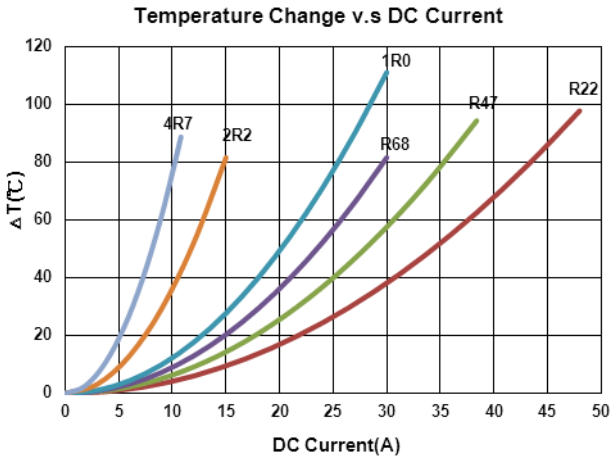
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMA001010151R5MX1	1.5	20	100	26(22)	8.5(10)	7(7.8)	1R5
BMMA001010152R2MX1	2.2	20	100	34(28.5)	7(8)	5(6)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

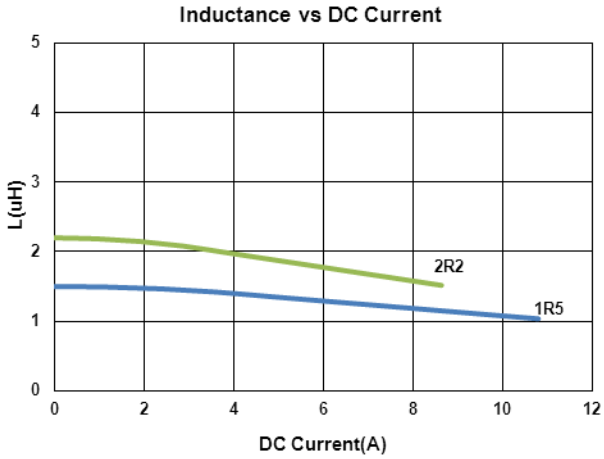
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

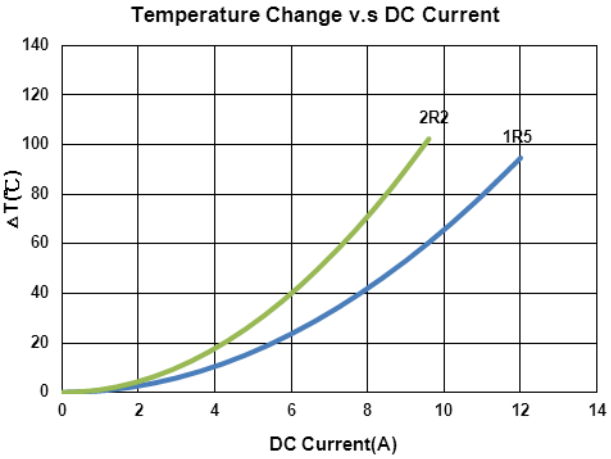
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101030R22MX2	0.22	20	100	1.2(1.07)	50	30	R22
BMMA00101030R36MX2	0.36	20	100	1.15(1.05)	30	26	R36
BMMA00101030R47MX2	0.47	20	100	2.5(2.1)	26	20	R47
BMMA00101030R68MX2	0.68	20	100	3.4(2.9)	23	21	R68
BMMA001010301R0MX2	1.0	20	100	6(5.3)	18	13	1R0
BMMA001010302R2MX2	2.2	20	100	9(8)	16	13	2R2
BMMA001010303R3MX2	3.3	20	100	16(14.5)	14	9	3R3
BMMA001010304R7MX2	4.7	20	100	22.5(20.5)	13	7	4R7
BMMA00101030100MX2	10	20	100	55(50)	7.5	5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

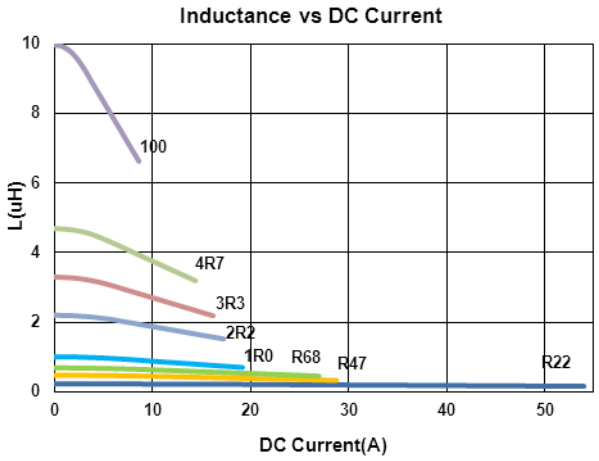
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

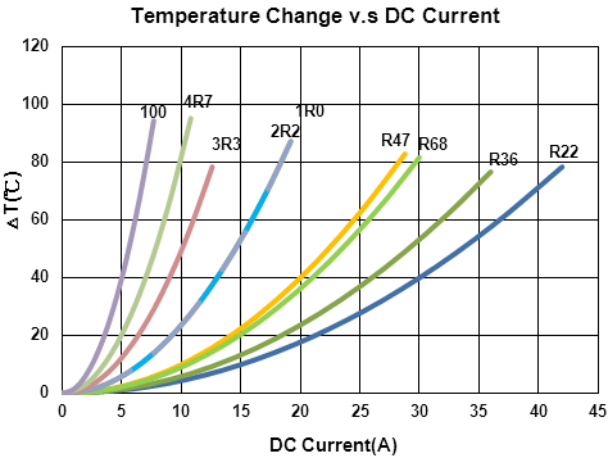
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010402R2MI8	2.2	20	100	5.5	20	15	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

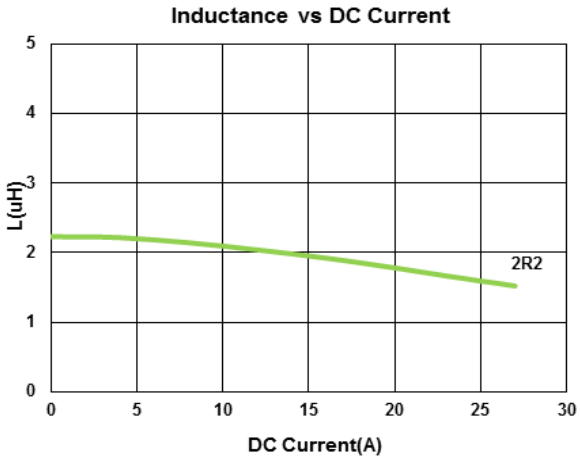
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

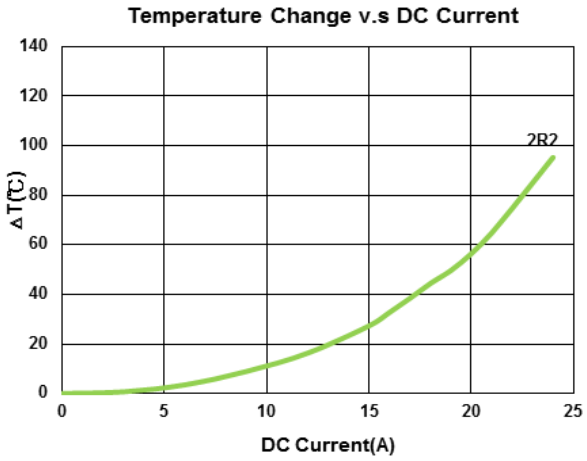
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R15MX1	0.15	20	100	0.65(0.5)	75	40	R15
BMMA00101040R36MX1	0.36	20	100	1.2(1.05)	60	30	R36
BMMA00101040R41MX1	0.41	20	100	1.3(1.1)	60	30	R41
BMMA00101040R47MX1	0.47	20	100	1.8(1.6)	40	26	R47
BMMA00101040R56MX1	0.56	20	100	1.8(1.6)	40	25	R56
BMMA00101040R68MX1	0.68	20	100	2.7(2.4)	39	22	R68
BMMA00101040R88MX1	0.88	20	100	3(2.7)	38	20	R88
BMMA001010401R0MX1	1.0	20	100	3.3(2.9)	36	18	1R0
BMMA001010401R5MX1	1.5	20	100	4.2(3.8)	33	16	1R5
BMMA001010402R2MX1	2.2	20	100	7(6.6)	27	12	2R2
BMMA001010404R7MX1	4.7	20	100	16.5(15)	17	9.5	4R7
BMMA00101040100MX1	10	20	100	30(27.5)	6	6	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

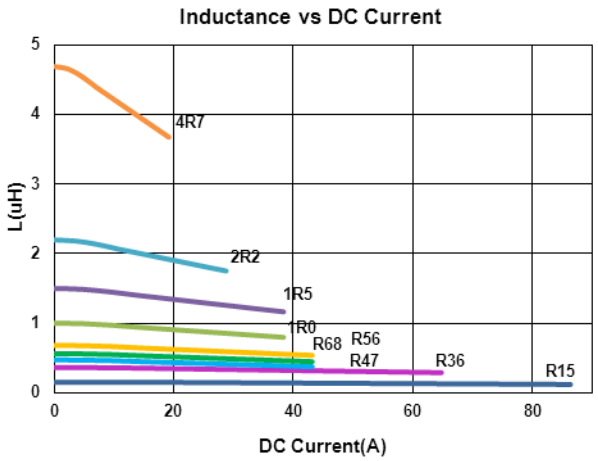
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

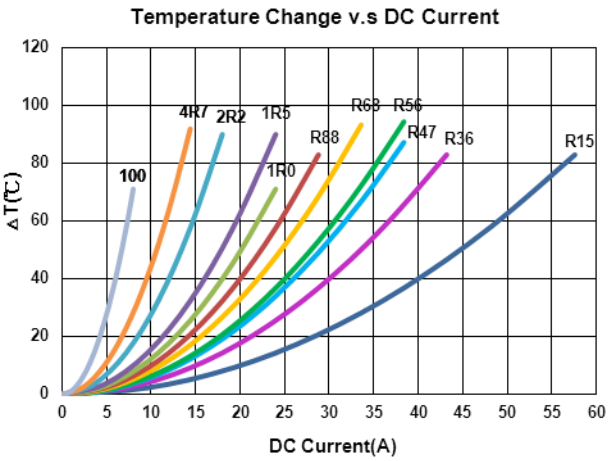
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R22MX2	0.22	20	100	1(0.9)	60	35	R22
BMMA00101040R36MX2	0.36	20	100	1.2(1.05)	60	30	R36
BMMA00101040R56MX2	0.56	20	100	1.8(1.6)	33	25	R56
BMMA001010401R0MX2	1.0	20	100	3.3(3)	28	18	1R0
BMMA001010401R5MX2	1.5	20	100	4.2(3.8)	32	16	1R5
BMMA001010401R8MX2	1.8	20	100	5(4.5)	15	15	1R8
BMMA001010403R3MX2	3.3	20	100	11.8(10.8)	16	10	3R3
BMMA001010405R6MX2	5.6	20	100	23(20)	14	8	5R6
BMMA001010406R8MX2	6.8	20	100	25(22.5)	9	6.5	6R8
BMMA00101040100MX2	10	20	100	30(27)	8.5	7.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

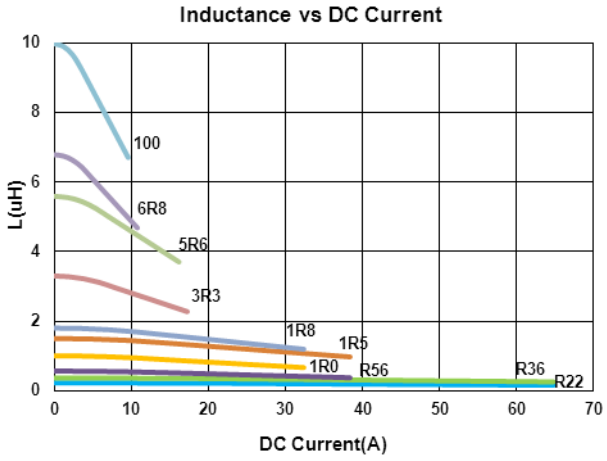
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

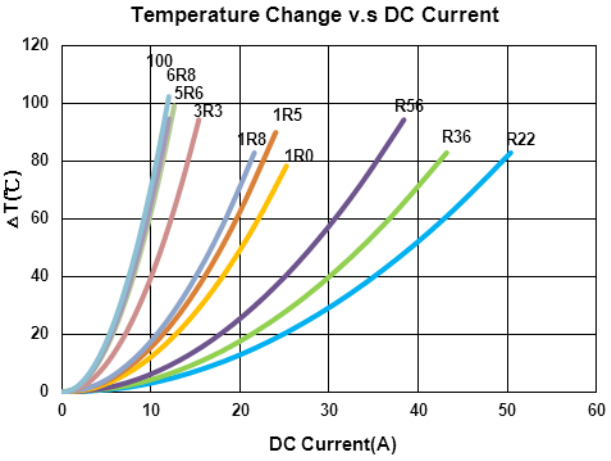
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101040R19MV1	0.19	20	100	0.95(0.87)	90	40	R19
BMMA00101040R36MV1	0.36	20	100	1.4(1.3)	60	31.5	R36
BMMA00101040R56MV1	0.56	20	100	1.8(1.7)	49	27.5	R56
BMMA001010401R0MV1	1.0	20	100	4.1(3.7)	36	17.5	1R0
BMMA001010401R5MV1	1.5	20	100	5.8(5.3)	27.5	15	1R5
BMMA001010402R2MV1	2.2	20	100	9(8.2)	25.6	12	2R2
BMMA001010403R3MV1	3.3	20	100	11.8(10.8)	18.6	10	3R3
BMMA001010404R7MV1	4.7	20	100	16.5(15)	17	9.5	4R7
BMMA001010405R6MV1	5.6	20	100	19.3(17.6)	16	8.5	5R6
BMMA001010406R8MV1	6.8	20	100	23.3(21.2)	13.5	8	6R8
BMMA00101040100MV1	10	20	100	36.5(33.2)	12	6.8	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

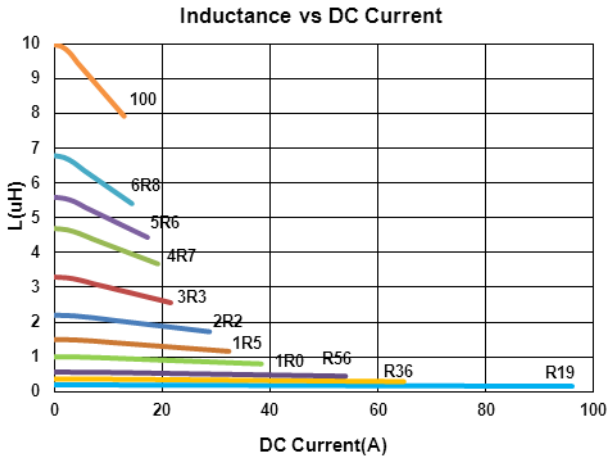
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

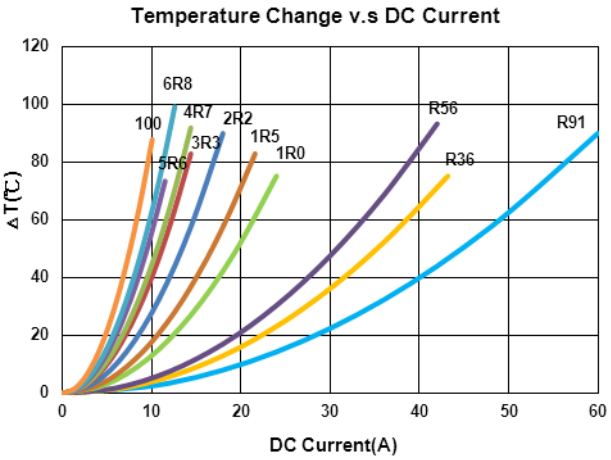
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010452R2MX1	2.2	20	100	7(5.8)	16	14	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

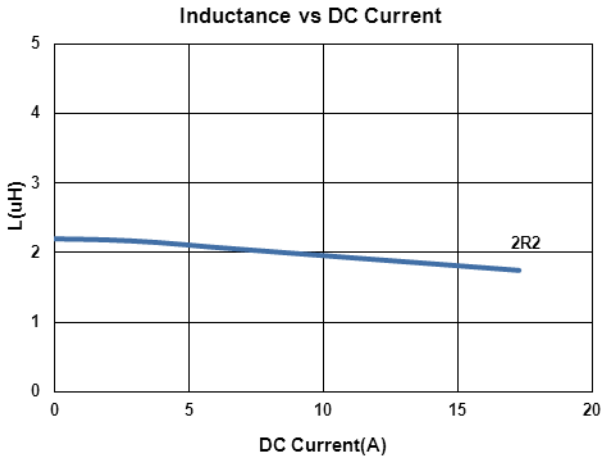
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

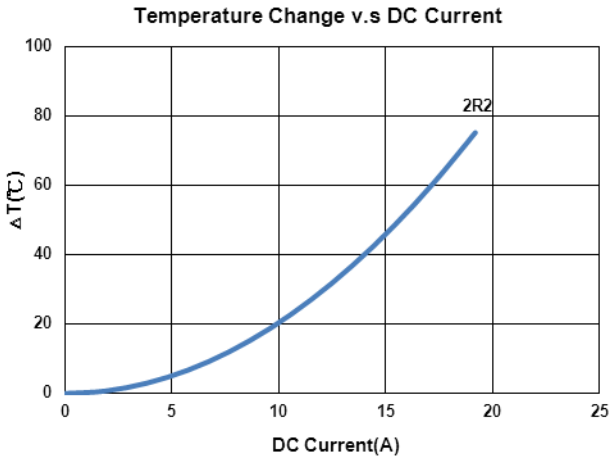
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001010452R2MX2	2.2	20	100	7(5.8)	16	14	2R2
BMMA001010453R3MX2	3.3	20	100	13.2(11)	14.5	11	3R3
BMMA001010454R7MX2	4.7	20	100	15(13.2)	13	10	4R7
BMMA001010456R8MX2	6.8	20	100	24(21.5)	9.5	7.5	6R8

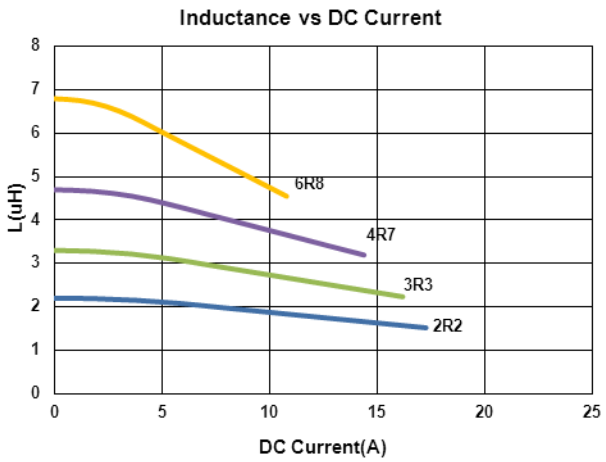
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

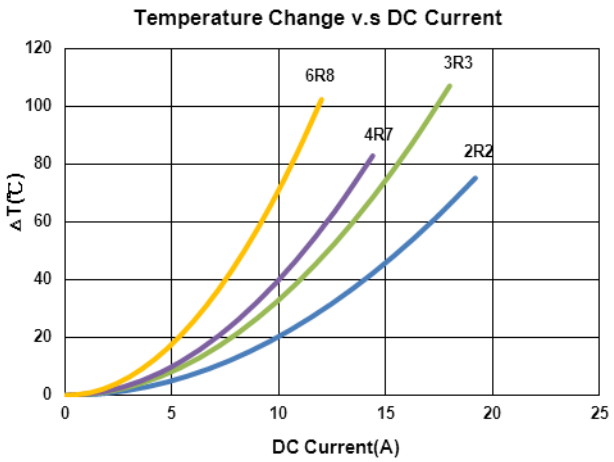
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00101050R47MX2	0.47	20	100	1.1(0.95)	50	36	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

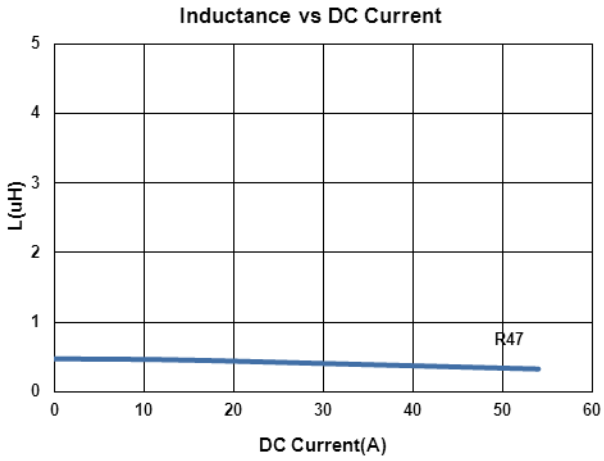
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

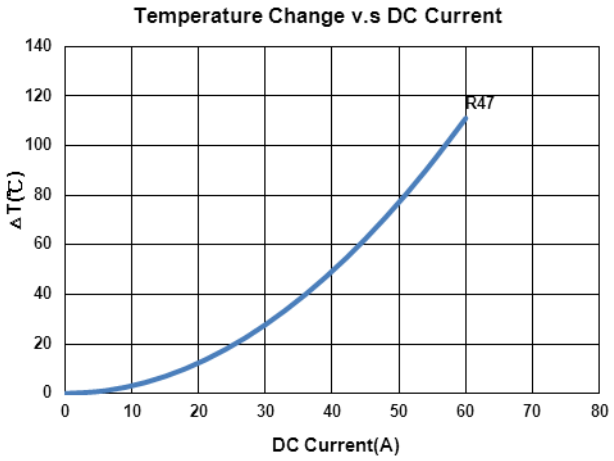
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131335R22MX1	0.22	20	100	1.3(1.1)	65	38.5	R22
BMMA00131335R33MX1	0.33	20	100	1.5(1.3)	62	36.5	R33
BMMA00131335R47MX1	0.47	20	100	2(1.6)	55	32	R47
BMMA00131335R56MX1	0.56	20	100	2.2(1.8)	51	29	R56
BMMA00131335R68MX1	0.68	20	100	2.5(2.3)	49	28	R68
BMMA001313351R0MX1	1.0	20	100	3.5(3.3)	40	24	1R0
BMMA001313351R5MX1	1.5	20	100	5.5(5.1)	35	19	1R5
BMMA001313352R2MX1	2.2	20	100	8(7.2)	29	16	2R2
BMMA001313353R3MX1	3.3	20	100	12(11)	27	12	3R3
BMMA001313354R7MX1	4.7	20	100	18(16)	22	9	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

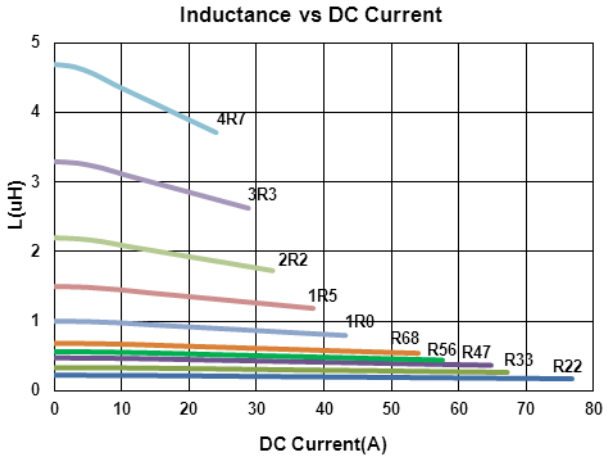
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

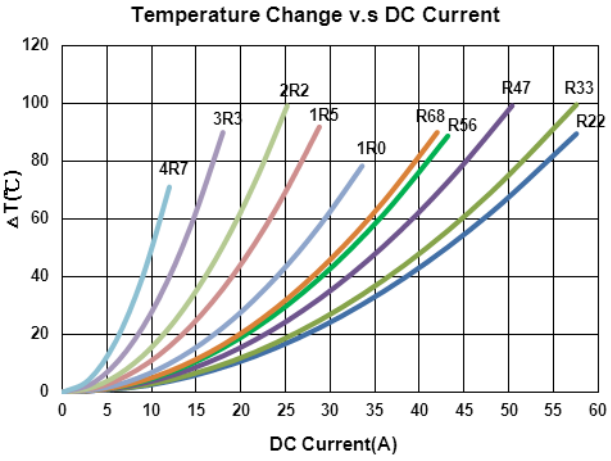
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131335R15MV1	0.15	20	100	1.2(1)	75	41	R15
BMMA00131335R22MV1	0.22	20	100	1.3(1.1)	65	38.5	R22
BMMA00131335R33MV1	0.33	20	100	1.5(1.3)	62	36.5	R33
BMMA00131335R47MV1	0.47	20	100	2(1.6)	55	32	R47
BMMA00131335R60MV1	0.60	20	100	2.2(1.8)	51	29	R60
BMMA00131335R68MV1	0.68	20	100	2.5(2.3)	49	28	R68
BMMA00131335R82MV1	0.82	20	100	3(2.6)	44	25	R82
BMMA001313351R0MV1	1.0	20	100	3.5(3.3)	40	24	1R0
BMMA001313351R5MV1	1.5	20	100	5.5(5.1)	35	19	1R5
BMMA001313351R8MV1	1.8	20	100	7(6.5)	30	16.5	1R8
BMMA001313352R2MV1	2.2	20	100	8(7.2)	29	16	2R2
BMMA001313353R3MV1	3.3	20	100	12(11)	27	12	3R3
BMMA001313354R7MV1	4.7	20	100	15(14.3)	24	10	4R7
BMMA001313355R6MV1	5.6	20	100	19(18.3)	19	9.5	5R6
BMMA001313356R8MV1	6.8	20	100	22(19.8)	18	9	6R8
BMMA001313358R2MV1	8.2	20	100	28(24.8)	16	8.5	8R2
BMMA00131335100MV1	10	20	100	34(30.4)	14	7	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

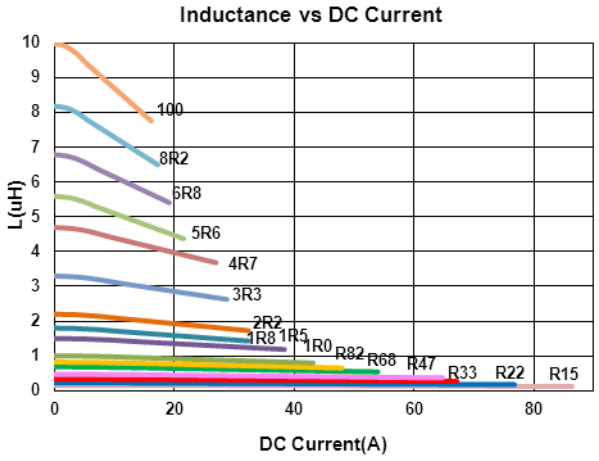
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

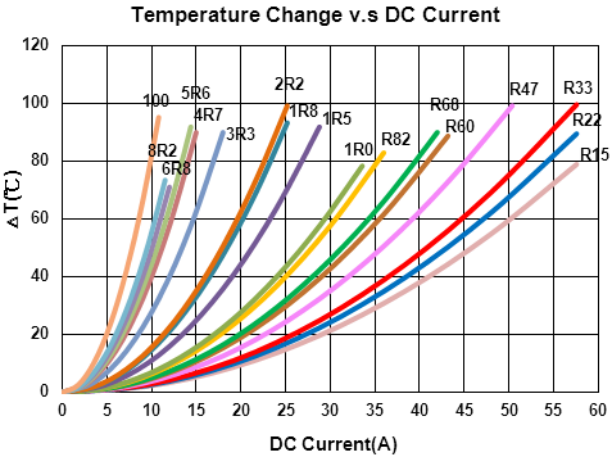
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R15MX1	0.15	20	100	0.7(0.55)	110	45	R15
BMMA00131350R36MX1	0.36	20	100	1.1(0.77)	75	41	R36
BMMA00131350R47MX1	0.47	20	100	1.3(1.1)	65	38	R47
BMMA00131350R50MX1	0.50	20	100	1.5(1.2)	55	36	R50
BMMA00131350R56MX1	0.56	20	100	1.5(1.2)	55	36	R56
BMMA00131350R68MX1	0.68	20	100	1.7(1.5)	54	34	R68
BMMA00131350R82MX1	0.82	20	100	2.1(1.8)	53	31	R82
BMMA001313501R0MX1	1.0	20	100	2.5(2.1)	50	29	1R0
BMMA001313501R5MX1	1.5	20	100	4.1(3.4)	48	23	1R5
BMMA001313502R2MX1	2.2	20	100	5.5(4.6)	32	20	2R2
BMMA001313503R3MX1	3.3	20	100	9.2(7.7)	32	15	3R3
BMMA001313504R7MX1	4.7	20	100	15(12.8)	27	12	4R7
BMMA001313506R8MX1	6.8	20	100	18.5(15.4)	21	11	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

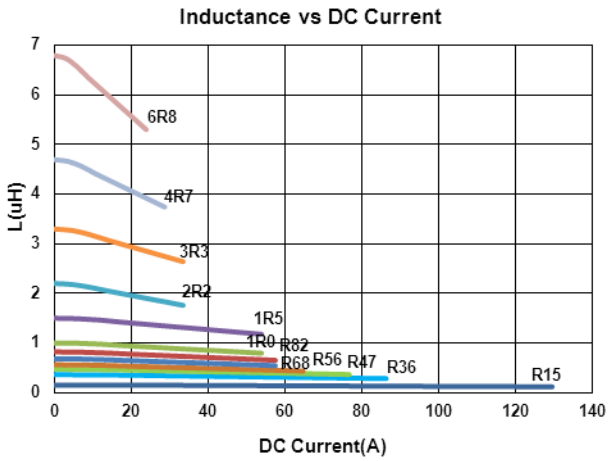
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

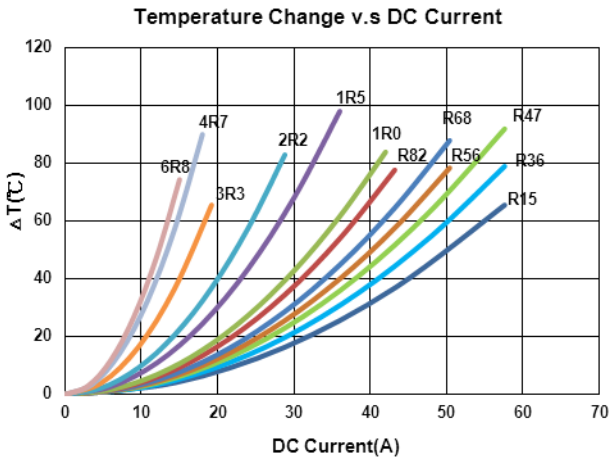
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R82MX2	0.82	20	100	1.67(1.45)	39	30	R82
BMMA001313501R0MX2	1.0	20	100	2.2(1.9)	35	26	1R0
BMMA001313501R5MX2	1.5	20	100	3.2(2.8)	33	23	1R5
BMMA001313502R2MX2	2.2	20	100	5(4)	24	15	2R2
BMMA001313503R3MX2	3.3	20	100	7(5.9)	22	14	3R3
BMMA00131350100MX2	10	20	100	22(19)	12	9	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

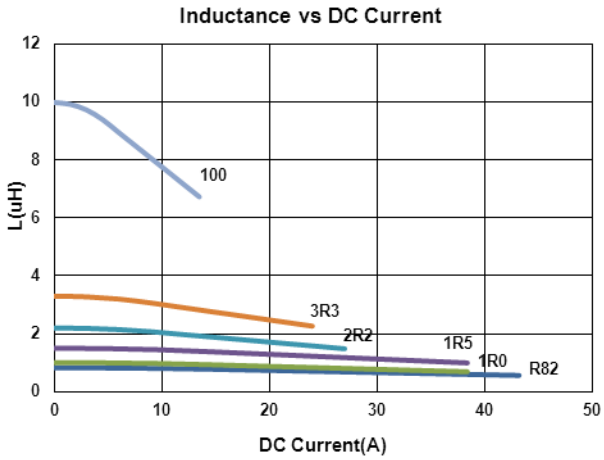
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
- Measure Equipment：

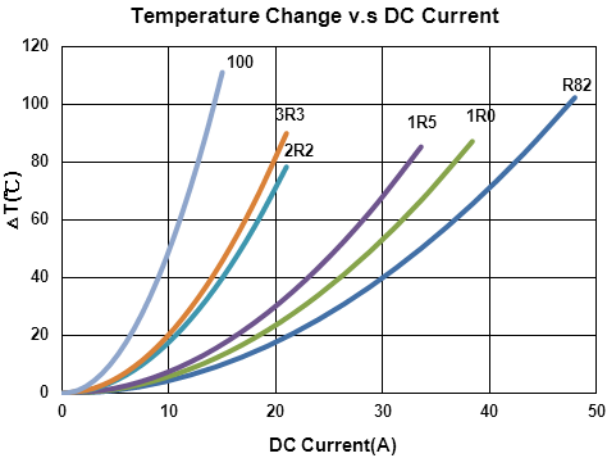
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131350R10MV1	0.10	20	100	0.6(0.53)	118	55	R10
BMMA00131350R22MV1	0.22	20	100	0.8(0.64)	110	51	R22
BMMA00131350R33MV1	0.33	20	100	1.1(0.85)	80	42	R33
BMMA00131350R47MV1	0.47	20	100	1.3(1.1)	65	38	R47
BMMA00131350R56MV1	0.56	20	100	1.5(1.3)	55	36	R56
BMMA00131350R68MV1	0.68	20	100	1.7(1.5)	54	34	R68
BMMA00131350R82MV1	0.82	20	100	2.3(2.0)	53	31	R82
BMMA001313501R0MV1	1.0	20	100	2.5(2.1)	50	29	1R0
BMMA001313501R5MV1	1.5	20	100	4.1(3.4)	48	23	1R5
BMMA001313501R8MV1	1.8	20	100	4.9(4.2)	40	19	1R8
BMMA001313502R2MV1	2.2	20	100	5.5(4.6)	32	20	2R2
BMMA001313503R3MV1	3.3	20	100	9.2(7.7)	32	15	3R3
BMMA001313504R7MV1	4.7	20	100	15(12.8)	27	12	4R7
BMMA001313505R6MV1	5.6	20	100	16.5(14)	22	11.5	5R6
BMMA001313506R8MV1	6.8	20	100	18.5(15.4)	21	11	6R8
BMMA001313507R8MV1	7.8	20	100	20.5(17.2)	18	10	7R8
BMMA001313508R2MV1	8.2	20	100	22.5(18.9)	18	9.5	8R2
BMMA00131350100MV1	10	20	100	25.5(21.4)	16	9	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Withstand voltage: 25V DC
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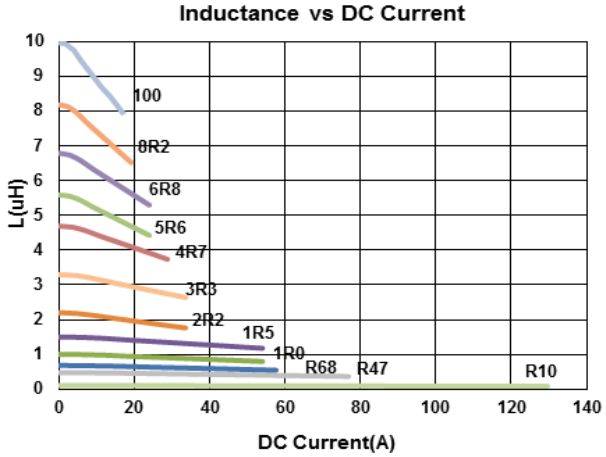
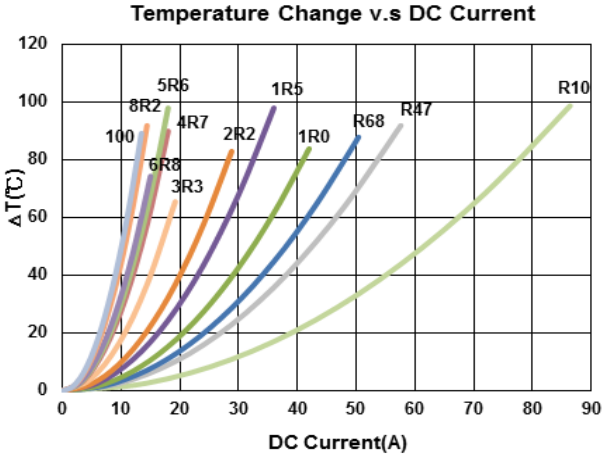
  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA00131364R22MV1	0.22	20	100	0.7(0.63)	112	53	R22
BMMA00131364R33MV1	0.33	20	100	0.9(0.83)	65	46	R33
BMMA00131364R47MV1	0.47	20	100	1.2(1)	63	41	R47
BMMA00131364R56MV1	0.56	20	100	1.4(1.2)	62	37	R56
BMMA00131364R68MV1	0.68	20	100	1.6(1.4)	60	35	R68
BMMA00131364R82MV1	0.82	20	100	1.9(1.6)	50	33	R82
BMMA001313641R0MV1	1.0	20	100	2(1.7)	49	32	1R0
BMMA001313641R5MV1	1.5	20	100	3(2.5)	45	27	1R5
BMMA001313641R8MV1	1.8	20	100	3.2(2.8)	41	24	1R8
BMMA001313642R2MV1	2.2	20	100	4.2(3.5)	40	22	2R2
BMMA001313643R3MV1	3.3	20	100	6.8(5.7)	35	18	3R3
BMMA001313644R7MV1	4.7	20	100	11.2(9.3)	30	13.5	4R7
BMMA001313645R6MV1	5.6	20	100	10(9.3)	32	13.5	5R6
BMMA001313646R8MV1	6.8	20	100	14(13.1)	16.5	11.5	6R8
BMMA001313648R2MV1	8.2	20	100	15.5(14.5)	16	10.5	8R2
BMMA00131364100MV1	10	20	100	17.2(16.4)	15.5	10	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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- Withstand voltage: 25V DC
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  Irms：CHROMA 1810

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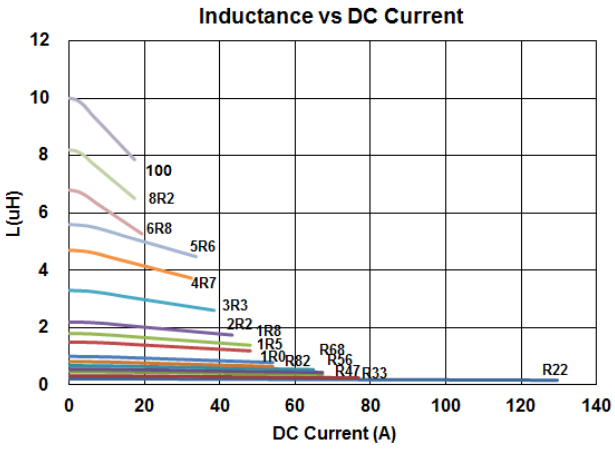

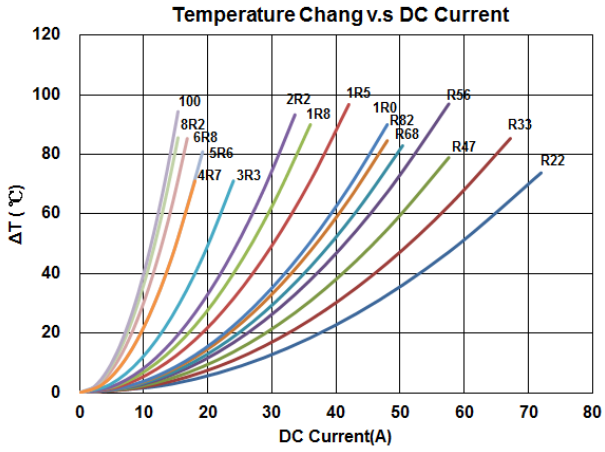

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMA001717701R0MV1	1.0	20	100	1.38(1.28)	73	48	1R0
BMMA001717702R2MV1	2.2	20	100	2.53(2.4)	62	35	2R2
BMMA001717703R3MV1	3.3	20	100	3.88(3.68)	54	28	3R3
BMMA001717704R7MV1	4.7	20	100	5.11(4.84)	41	25	4R7
BMMA001717706R8MV1	6.8	20	100	8.83(8.37)	32	19	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55℃~125℃(Including self - temperature rise)
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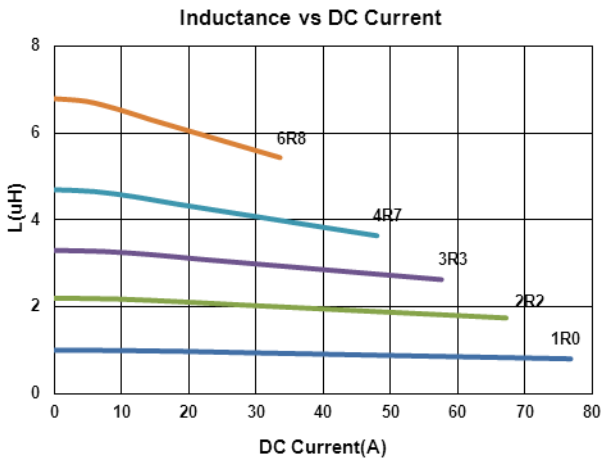

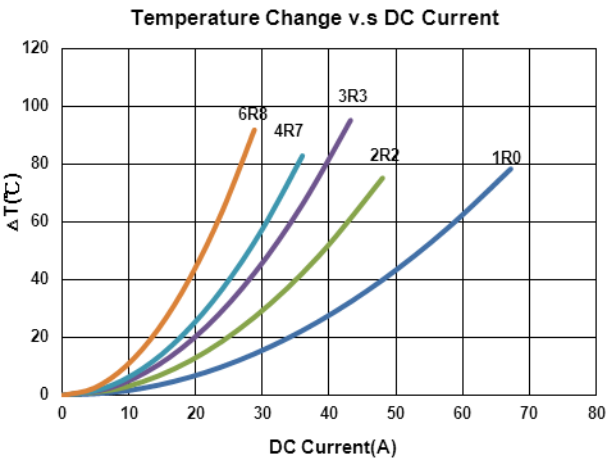

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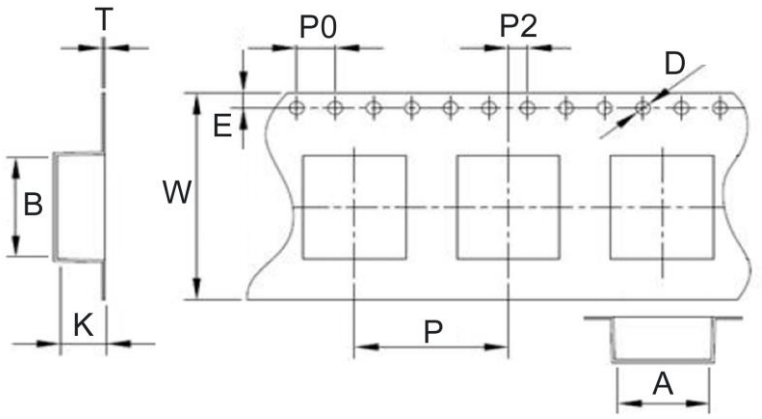
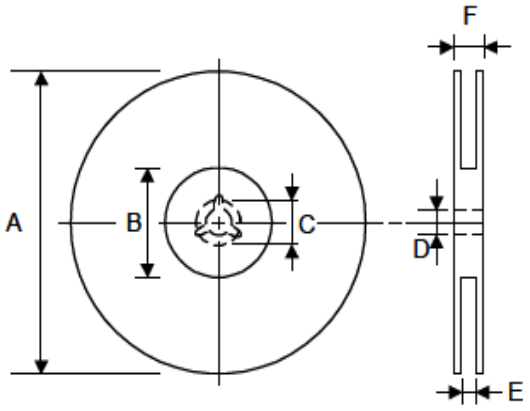
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMMA00040412	4.5	4.9	1.7	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMA00040420	4.4	4.9	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMA00050512	5.4	5.8	1.4	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050518	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050520	5.4	5.8	2.3	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050530-Xx	5.0	5.4	3.2	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00050530-V1	5.4	5.9	3.3	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMA00060618	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060624	6.9	7.6	2.7	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060630	6.9	7.6	3.4	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060640	6.9	7.5	4.3	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMA00060650-X1	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00060650-X2	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00060650-V1	6.9	7.5	5.2	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00080830	8.6	8.8	3.3	0.4	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00080840	8.3	8.5	4.2	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	500
BMMA00101015	10.4	11.5	2.3	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101030	10.4	11.5	3.4	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101040	10.4	11.5	4.5	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101045	10.4	11.5	4.9	0.5	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00101050	10.4	11.5	5.8	0.5	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131335-X1	13.0	13.9	3.6	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131335-V1	13.0	13.9	3.8	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMA00131350	13.4	14.0	5.4	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMA00131364	13.4	14.0	6.8	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMA00171770	17.45	18.5	7.8	0.5	1.5	1.75	32	24	4	2	330	100	21.5	13	32	37	100

BMMN Series

BMMN Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

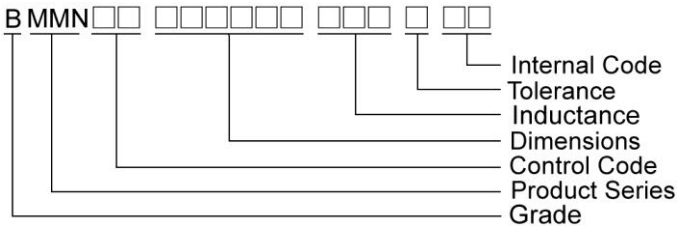
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

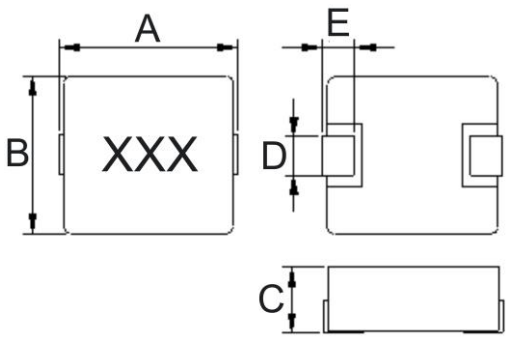
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

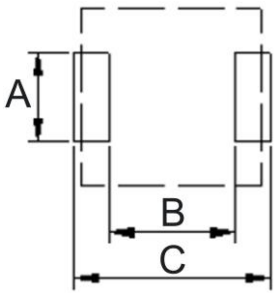
Product Identification



Shape and Dimensions



Recommended Pattern



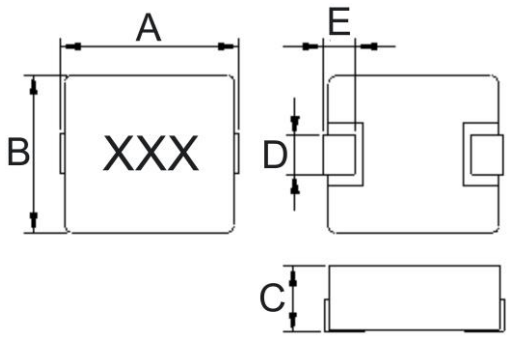
Dimensions in mm

TYPE	A	B	C	D	E
BMMN00040412	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMN00040420	4.45±0.25	4.06±0.25	2.0Max	2.0±0.3	0.76±0.3
BMMN00050512	5.49±0.25	5.18±0.22	1.2Max	2.0±0.3	1.0±0.3
BMMN00050515	5.49±0.25	5.18±0.22	1.5Max	2.0±0.3	1.0±0.3
BMMN00050518	5.49±0.25	5.18±0.22	1.8Max	2.0±0.3	1.0±0.3
BMMN00050530	5.3Max	4.7±0.2	3.0Max	2.0±0.2	1.0±0.3
BMMN00060615	6.86±0.38	6.47±0.25	1.5Max	3.0±0.3	1.3±0.3
BMMN00060618	7.4Max	6.6±0.2	1.8Max	3.0±0.3	1.6±0.3
BMMN00060630	6.95±0.35	6.6±0.2	3.0Max	3.0±0.3	1.6±0.3

Dimensions in mm

TYPE	A	B	C
BMME00040412	2.5	2.2	5.2
BMME00040420	2.5	2.2	5.2
BMMN00050512	2.5	2.2	5.99
BMMN00050515	2.5	2.2	5.99
BMMN00050518	2.5	2.2	5.99
BMMN00050530	2.5	3.0	7.0
BMMN00060615	3.43	3.71	7.37
BMMN00060618	3.5	3.7	8.4
BMMN00060630	3.5	3.7	8.4

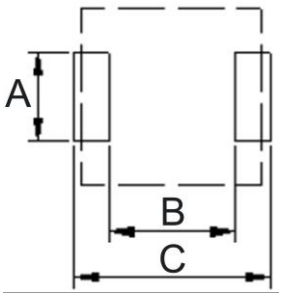
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMMN00101020	11.5Max	10±0.3	2.0Max	3.0±0.5	2.2±0.3
BMMN00101030	11.5Max	10±0.3	3.0Max	3.0±0.5	2.0±0.5
BMMN00101040-X1	11.5Max	10±0.3	4.0Max	3.0±0.5	2.2±0.3
BMMN00101040-X2	11.5Max	10±0.3	4.0Max	3.0±0.5	2.0±0.5
BMMN00131350	13.2±0.5	12.9Max	5.0Max	3.5±0.5	2.3±0.3
BMMN00131360	14.2Max	12.6±0.2	6.0Max	3.2±0.3	2.3±0.3
BMMN00131365	13.2±0.5	12.6±0.2	6.5Max	3.2±0.3	2.3±0.3
BMMN00171770	17.6±0.5	17.2Max	7.0Max	11.8±0.3	2.5±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMMN00101020	4.1	5.4	13.6
BMMN00101030	4.1	5.4	13.6
BMMN00101040-X1	4.1	5.4	13.6
BMMN00101040-X2	4.1	5.4	13.6
BMMN00131350	5.0	8.0	14.5
BMMN00131360	5.0	8.0	14.5
BMMN00131365	5.0	8.0	14.5
BMMN00171770	12.8	11.2	18.2

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000404121R0MX2	1.0	20	100	47(43)	5.2	4.2	1R0
BMMN000404122R2MX2	2.2	20	100	83.5(79.4)	3.5	2.75	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

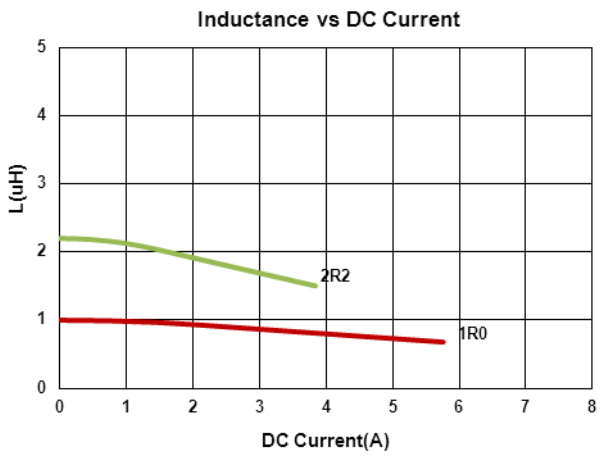
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

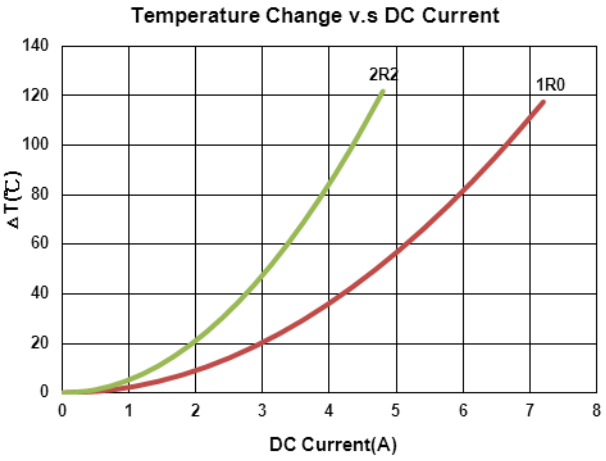
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000404201R5MX2	1.5	20	100	43(35)	6	4	1R5

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

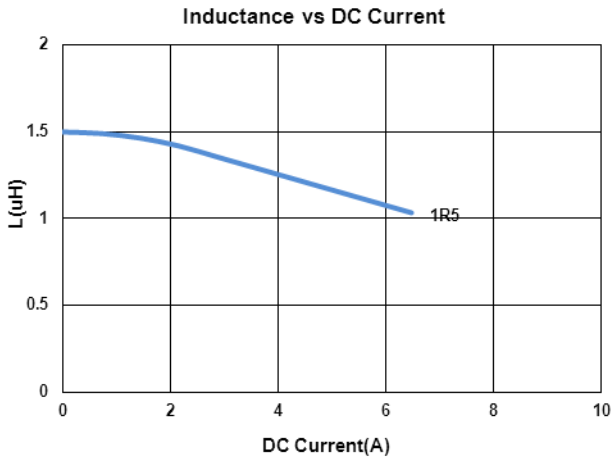
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

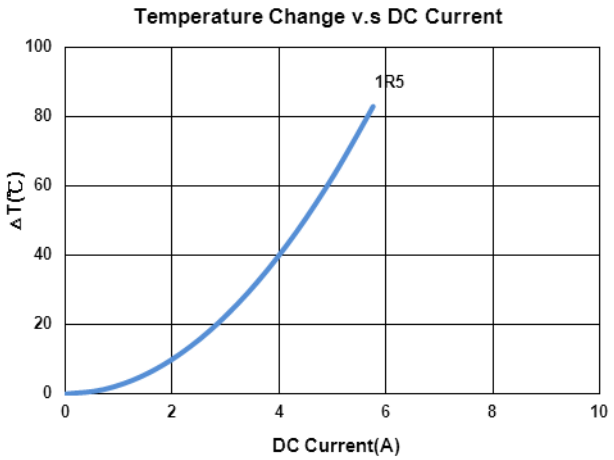
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ..	Marking
BMMN000505122R2MX1	2.2	20	100	76(67)	4	3.5	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

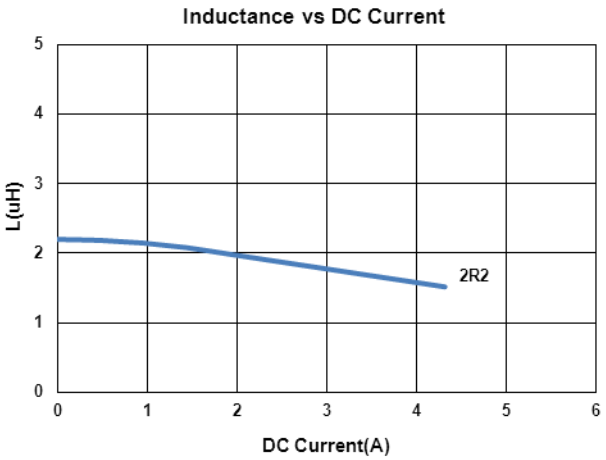
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

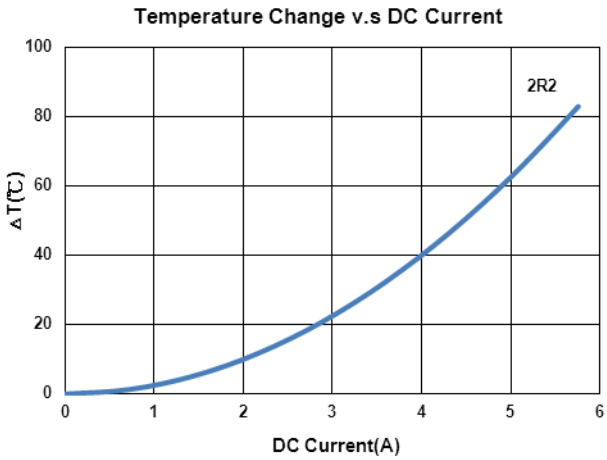
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00050512R68MX2	0.68	20	100	22(19)	7.4(8.5)	6.0(6.7)	R68

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

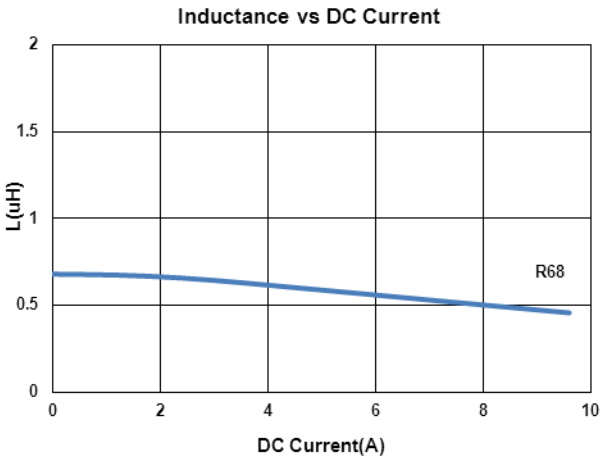
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

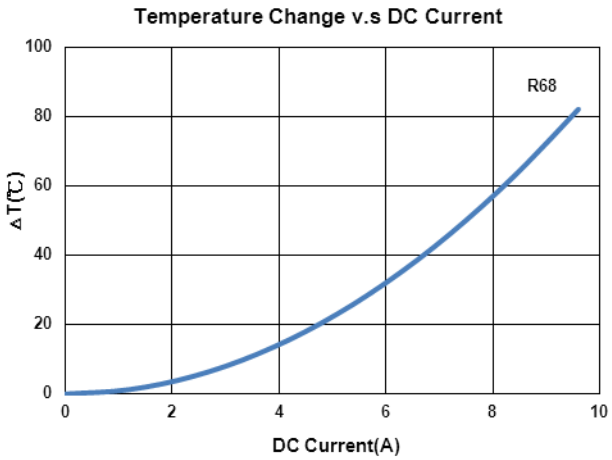
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ..	Marking
BMMN000505151R0MX2	1.0	20	100	23(20)	9	6.5	1R0
BMMN000505154R7MX2	4.7	20	100	106(95)	4	3	4R7
BMMN00050515100MX2	10	20	100	170(153)	3	2	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

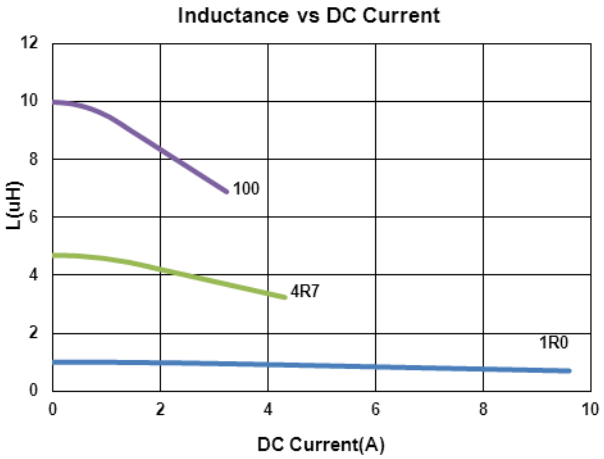
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

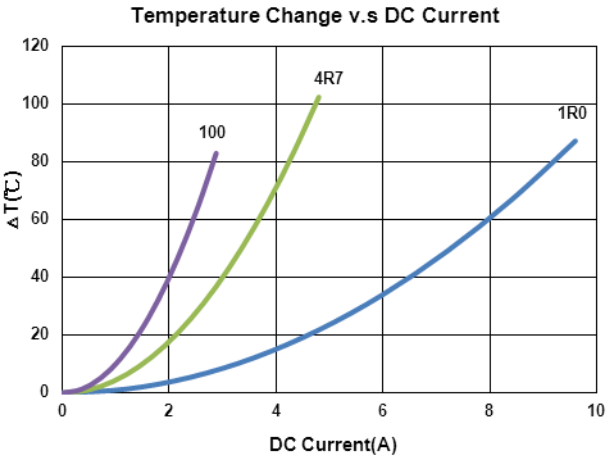
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000505181R0MX1	1.0	20	100	18(15)	8.6(10)	7.5(8.5)	1R0
BMMN000505181R5MX1	1.5	20	100	28(23)	7.2(9)	5.5(6.5)	1R5
BMMN000505182R2MX1	2.2	20	100	35(30)	6(7)	4.7(5.2)	2R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

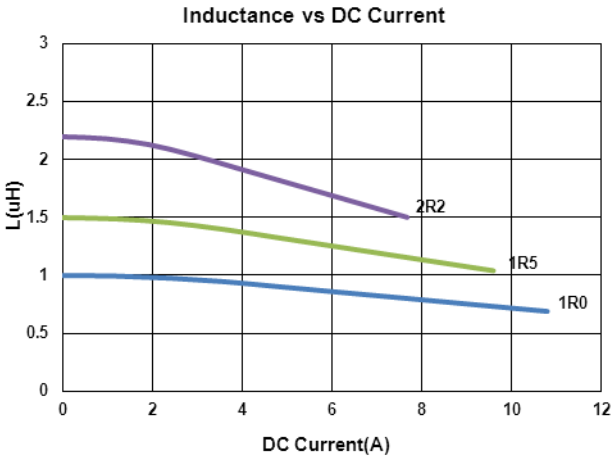
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

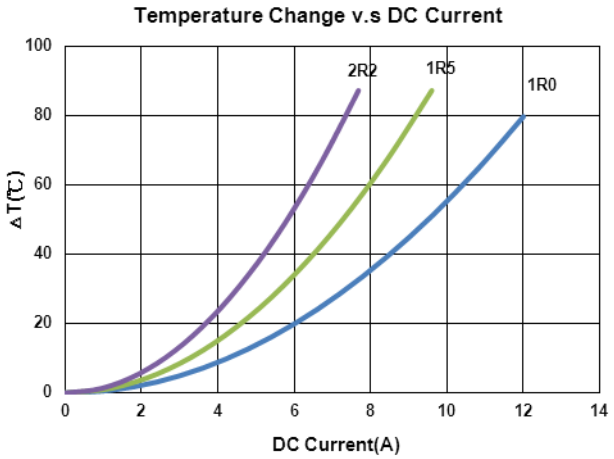
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00050518R47MX2	0.47	20	100	9(7.7)	15.5	10.5	R47
BMMN00050518R56MX2	0.56	20	100	10(8)	15	9.5	R56
BMMN000505181R0MX2	1.0	20	100	17(15)	9	8	1R0
BMMN000505181R2MX2	1.2	20	100	20(17)	8	7.5	1R2
BMMN000505182R2MX2	2.2	20	100	35(30)	6.5	5	2R2
BMMN000505183R3MX2	3.3	20	100	58(52)	5	4.5	3R3
BMMN000505184R7MX2	4.7	20	100	85(78)	4	3.5	4R7
BMMN000505186R8MX2	6.8	20	100	120(107)	3.4	2.8	6R8
BMMN00050518100MX2	10	20	100	155(140)	3	2.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：WK 3260B or WK 6500P, 100kHz 0.25V

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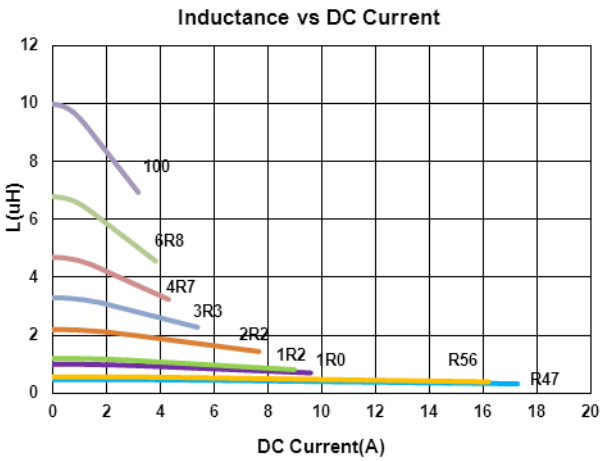
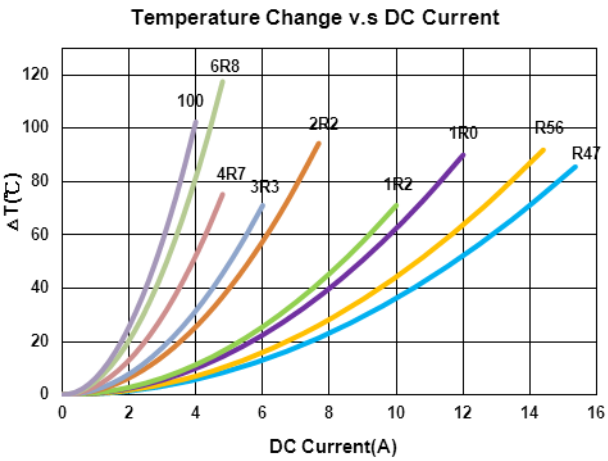
  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000505306R8MX1	6.8	20	100	115(100)	3.2(3.7)	3(3.5)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

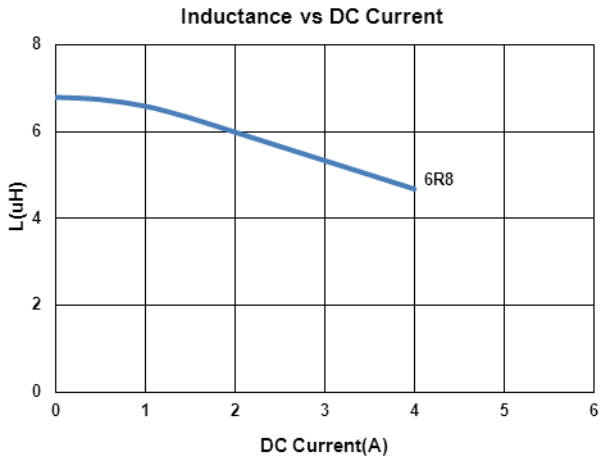
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

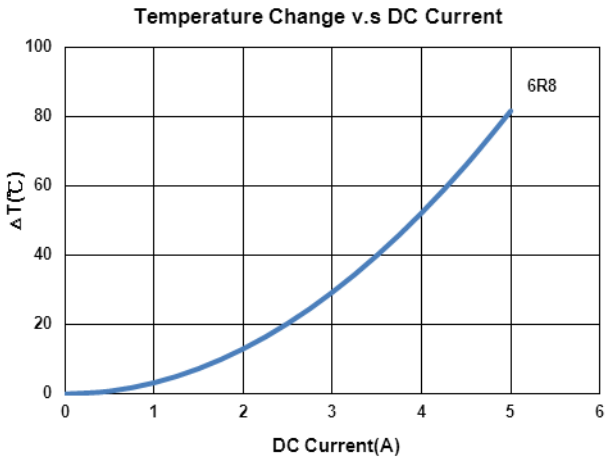
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN000505306R8MX2	6.8	20	100	100(96)	3	3	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

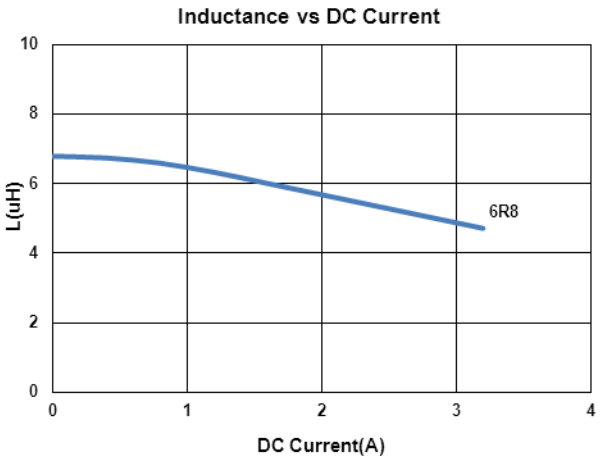
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

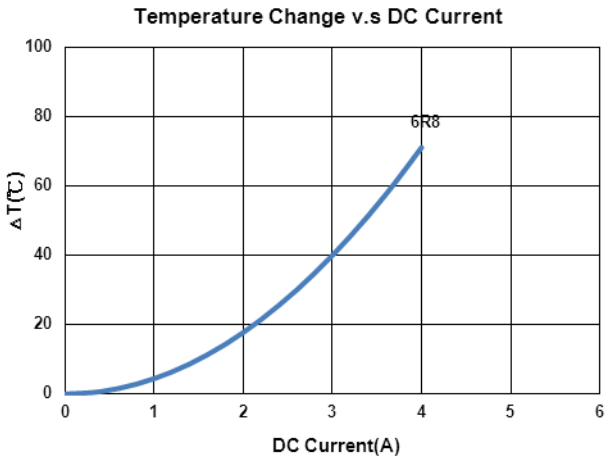
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00060615R56MX2	0.56	20	100	11(9.5)	14	9	R56
BMMN00060615R68MX2	0.68	20	100	12(10.5)	12	8.5	R68
BMMN00060615R82MX2	0.82	20	100	17(15)	10	7	R82
BMMN000606151R0MX2	1.0	20	100	21(18.5)	9	5.5	1R0
BMMN000606151R2MX2	1.2	20	100	30(25)	8.5	5.4	1R2
BMMN000606152R2MX2	2.2	20	100	50(43)	6	3.5	2R2
BMMN000606153R3MX2	3.3	20	100	63(54)	5.5	3.3	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

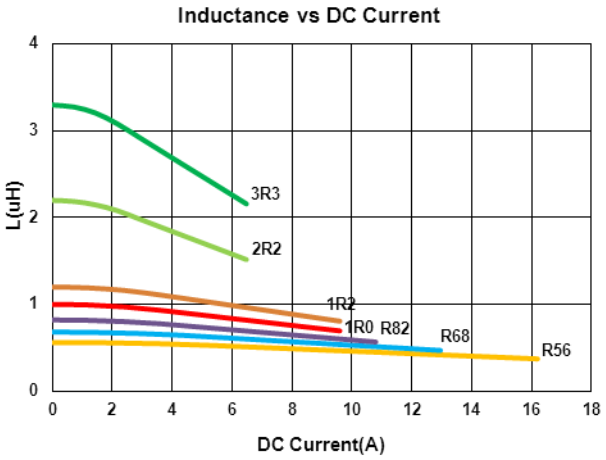
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

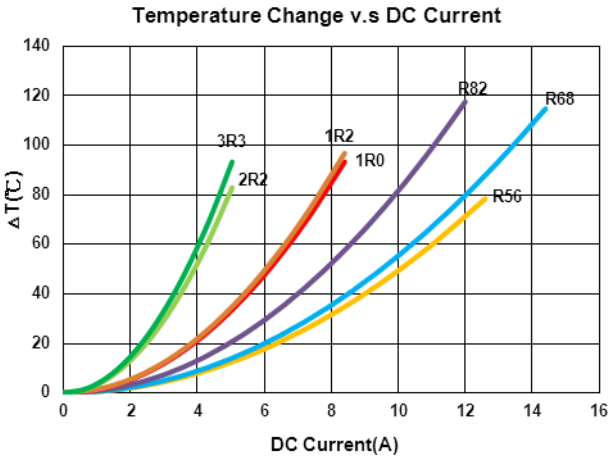
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00060618R18MX2	0.18	20	100	3.6(3.1)	35(41)	17(20)	R18

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

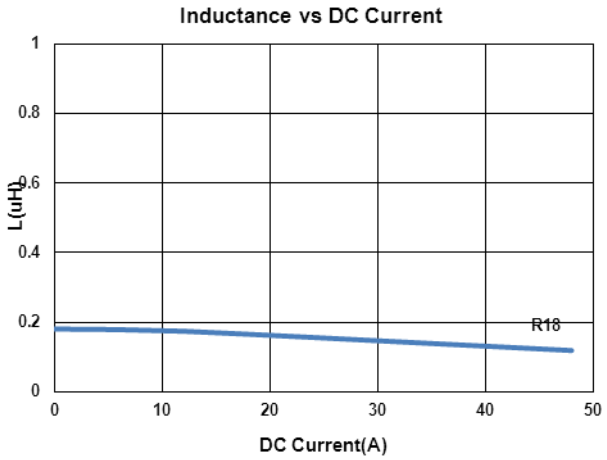
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

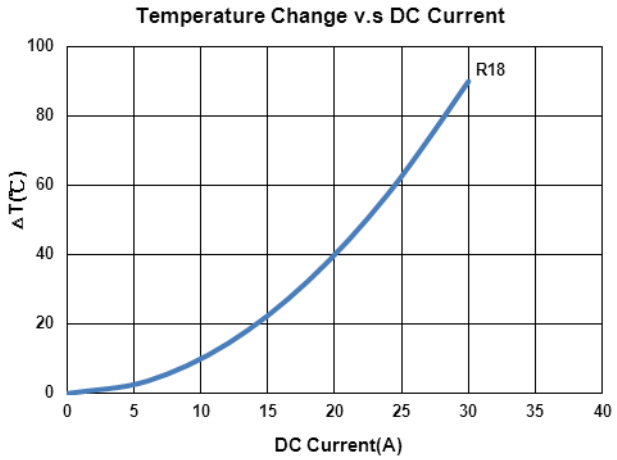
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN000606301R0MX1	1.0	20	100	7.25(6.6)	13.5(16.5)	11.2(13)	1R0
BMMN000606303R3MX1	3.3	20	100	22(17.9)	8.5(9.6)	6.2(7.2)	3R3
BMMN000606304R7MX1	4.7	20	100	33(27.9)	5.5(6.55)	5.5(6.0)	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

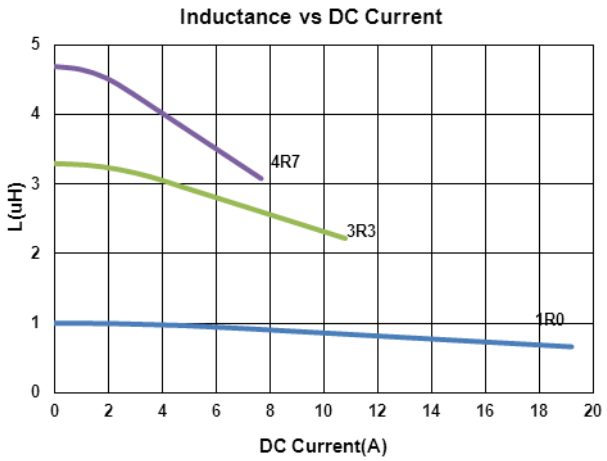
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

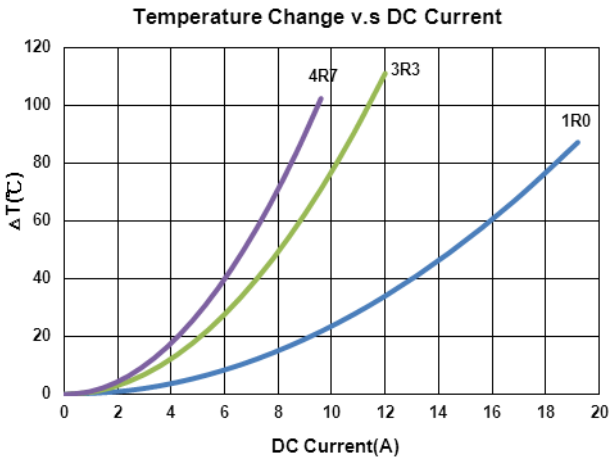
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010201R0MX2	1.0	20	100	10.4(9.0)	16(20)	11(12)	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

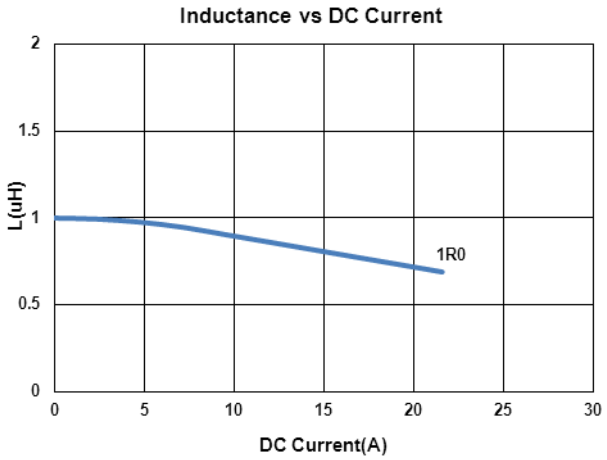
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

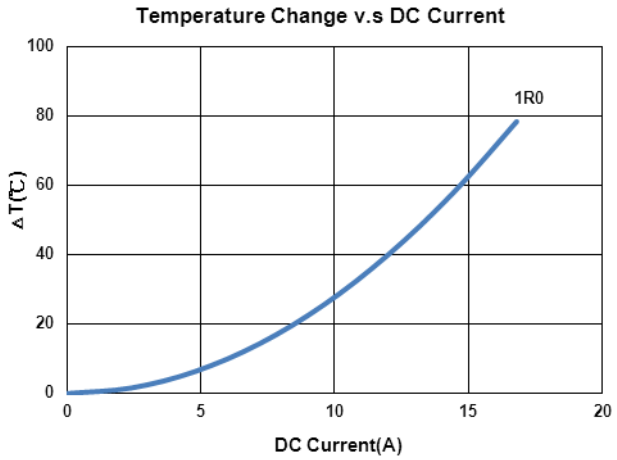
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010301R2MX1	1.2	20	100	15.2(12.5)	20(24)	9.5(10.5)	1R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

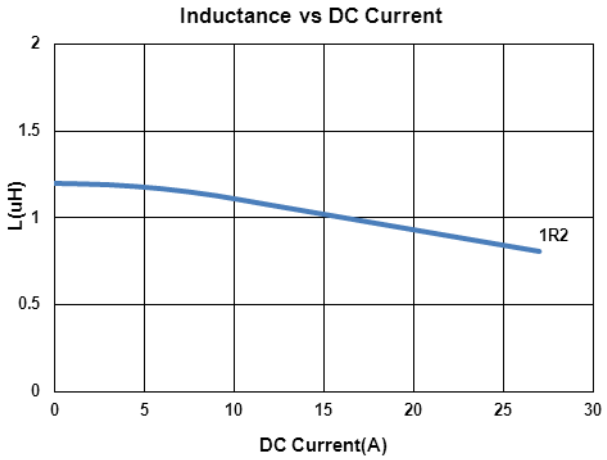
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

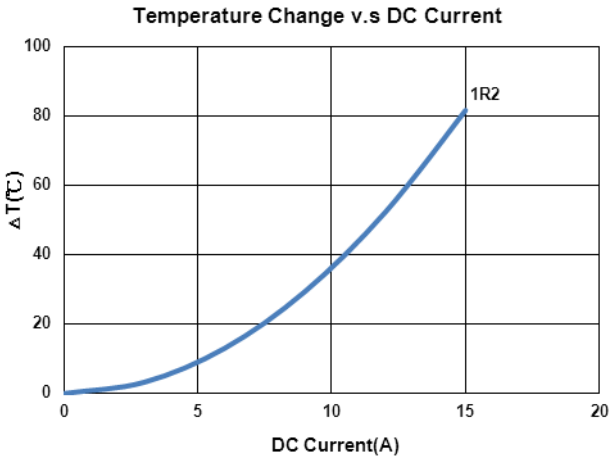
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00101030220MX2	22	20	100	99(90)	5.0	3.0	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

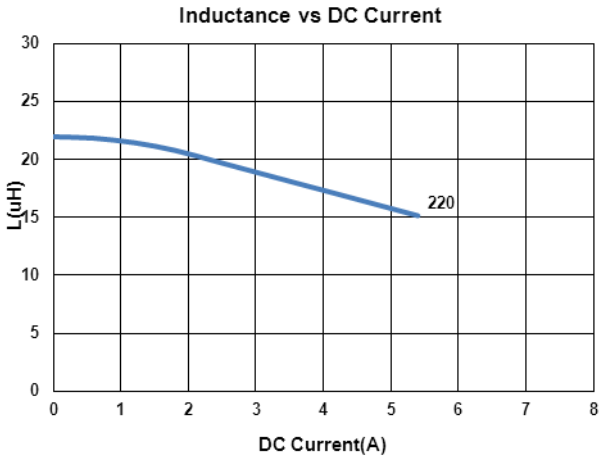
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

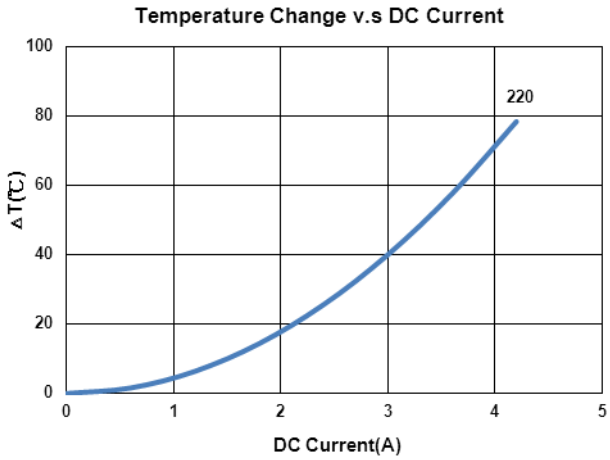
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN001010402R2MX1	2.2	20	100	7(6)	16(20)	11(12)	2R2
BMMN001010403R3MX1	3.3	20	100	12(10.5)	14(16.2)	9(10)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

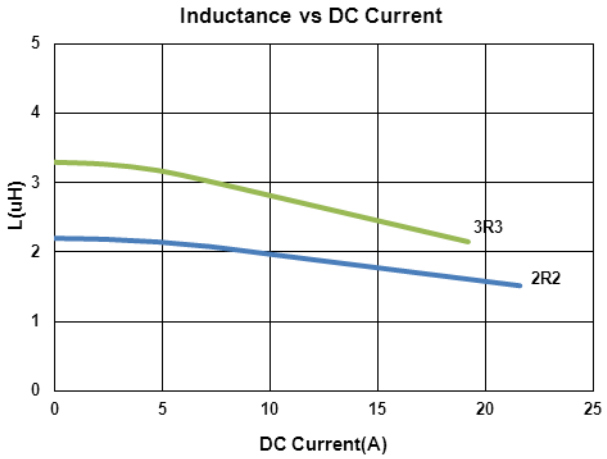
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

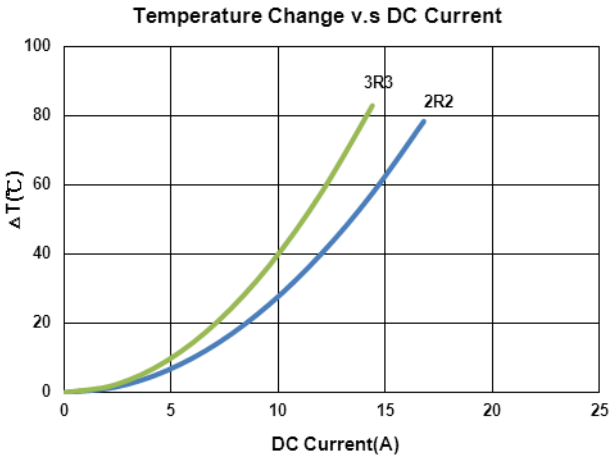
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00101040220MX2	22	20	100	66(60)	5.5	5.0	220
BMMN00101040330MX2	33	20	100	92(85)	5.0	4.4	330
BMMN00101040470MX2	47	20	100	145(130)	3.5	3.3	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

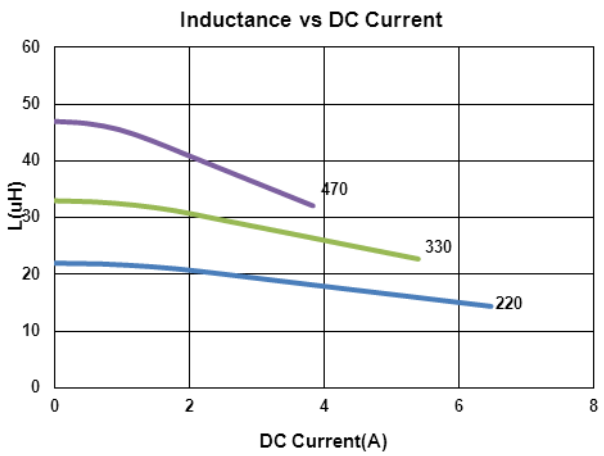
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

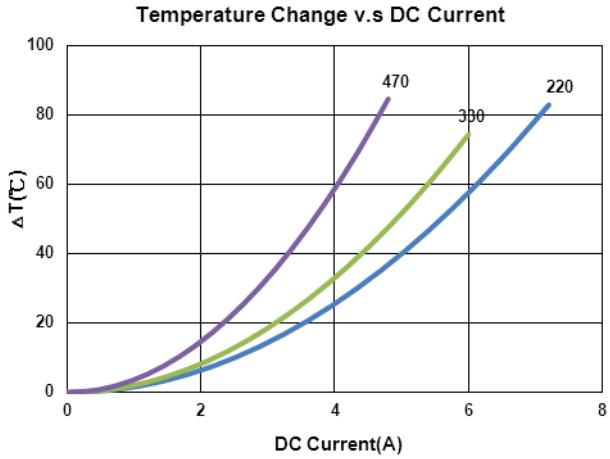
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
BMMN00131350R82MX1	0.82	20	100	2.0(1.7)	55(65)	28(31)	R82
BMMN001313501R0MX1	1.0	20	100	2.5(2.05)	50(58)	26(29)	1R0
BMMN001313502R2MX1	2.2	20	100	5.2(4.5)	32(36)	19(20)	2R2
BMMN001313503R3MX1	3.3	20	100	8.6(7.5)	28(33)	14(15)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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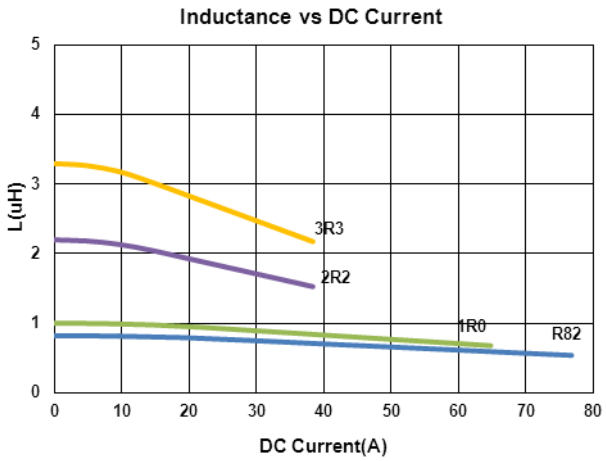
- Measure Equipment：

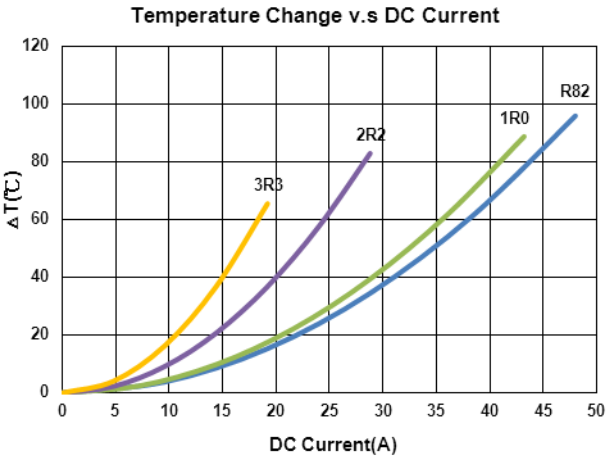
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00131360100MX2	10	20	100	20.7(18)	12.5	10	100
BMMN00131360180MX2	18	20	100	35(30)	8	5	180

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

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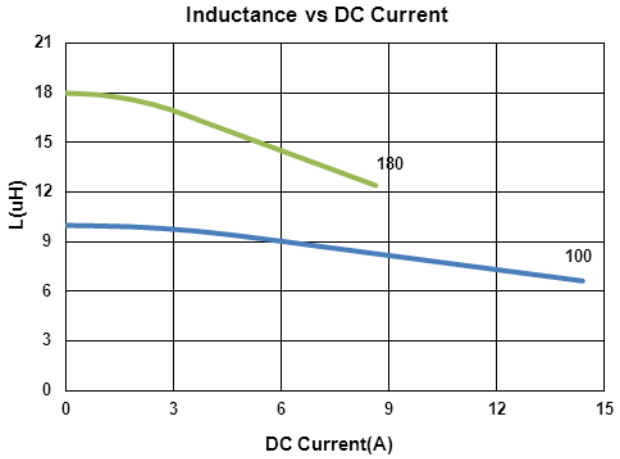

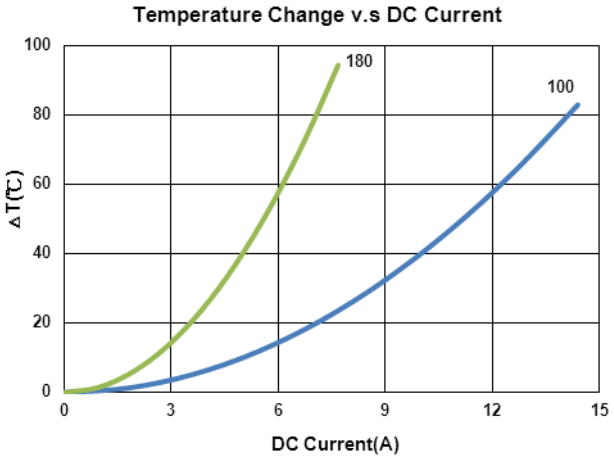

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN001313651R0MX2	1.0	20	100	2.3(1.9)	50	28	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

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  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

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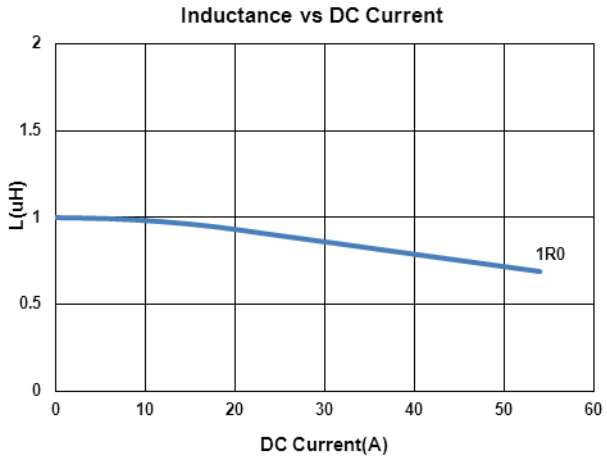

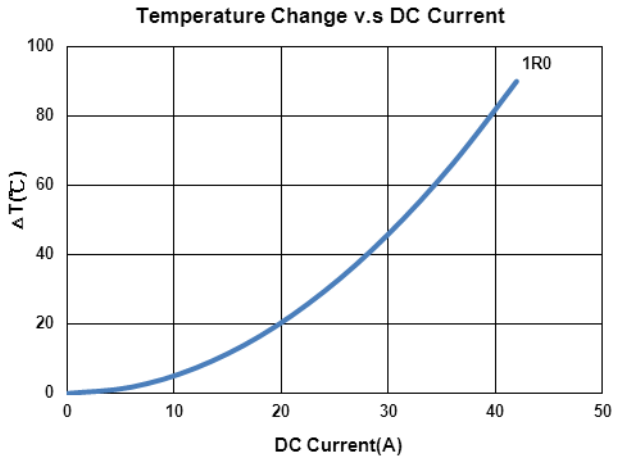

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BMMN001717702R2MX1	2.2	20	100	2.5(2.1)	33(38)	30(37)	2R2
BMMN001717706R8MX1	6.8	20	100	7.5(6.5)	22(25)	19(21)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

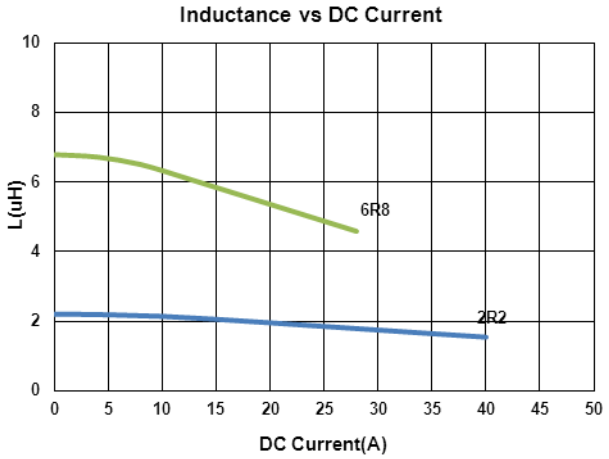
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

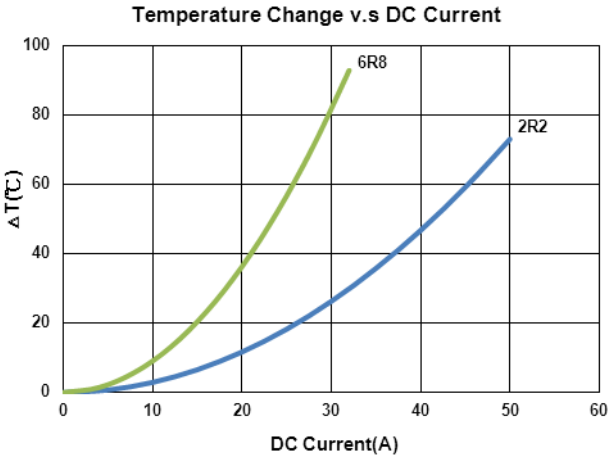
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMN00171770100MX2	10	20	100	10(9.3)	18	14	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

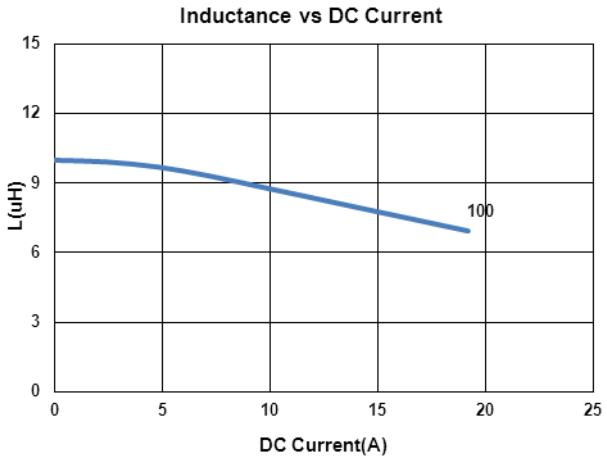
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

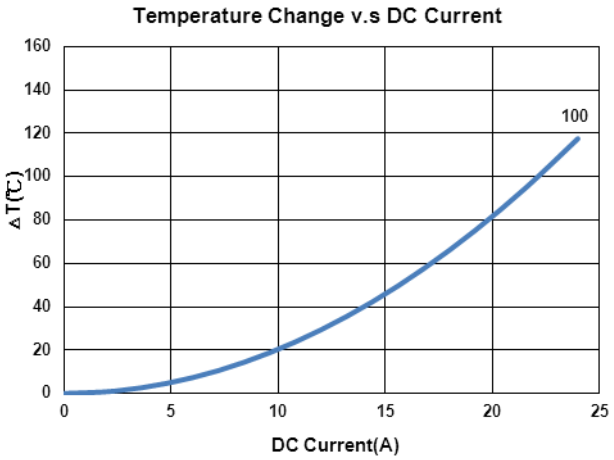
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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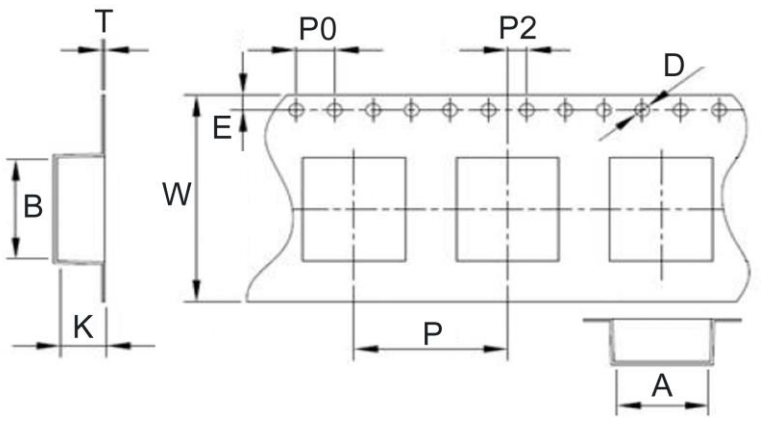
Pulse a YAGEO company

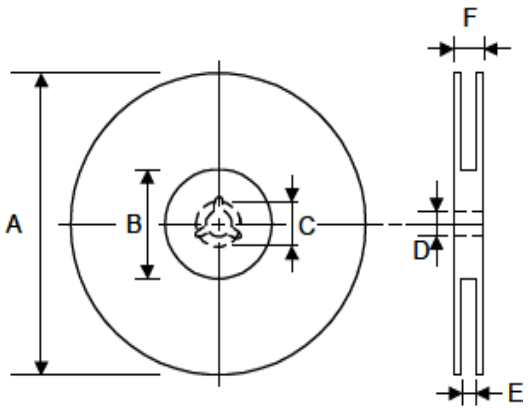
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMMN00040412	4.5	4.9	1.7	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMN00040420	4.5	4.9	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMMN00050512	5.4	5.8	1.4	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050515	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050518	5.4	5.8	1.95	0.3	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00050530	5.0	5.4	3.2	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	1000
BMMN00060615	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00060618	6.9	7.5	2.1	0.3	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00060630	6.9	7.6	3.4	0.35	1.5	1.75	16	12	4	2	330	100	21.5	13	16.4	21.4	1000
BMMN00101020	10.4	11.5	2.8	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00101030	10.4	11.5	3.4	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00101040	10.4	11.5	4.5	0.35	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	500
BMMN00131350	13.4	14	5.4	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00131360	13.2	14.4	6.3	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00131365	13.4	14.1	6.8	0.4	1.5	1.75	24	16	4	2	330	100	21.5	13	24.2	29.2	250
BMMN00171770	17.45	18.5	7.8	0.5	1.5	1.75	32	24	4	2	330	100	21.5	13	32	37	100

BMMS Series

BMMS Series is designed for low profile type with low RDC and ultra large current. Its molded magnetic shielded type is suitable for high-density mounting and ultra low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

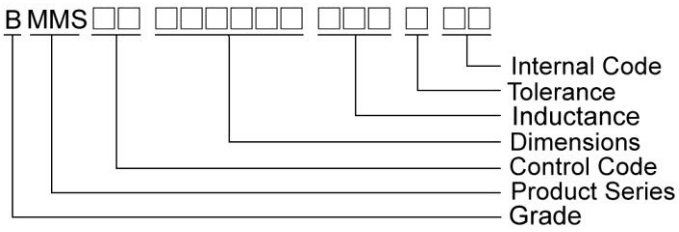
Features

- RoHS, Halogen Free and REACH Compliance
- Low resistance and high current rating
- Magnetic core made by high performance magnetic powder

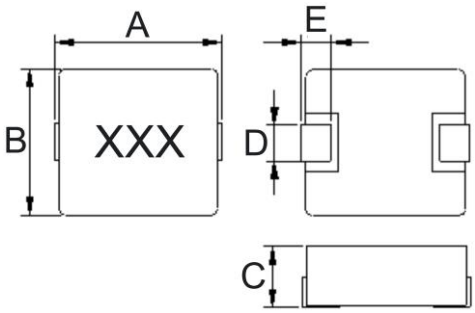
Applications

- Laptop and desktop applications
- High current power supplies
- PMIC
- DC/DC converters

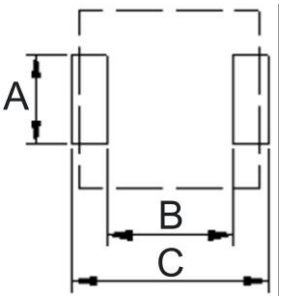
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E
BMMS00040412	4.45±0.25	4.06±0.25	1.2Max	2.0±0.3	0.76±0.3
BMMS00060630	6.95±0.35	6.60±0.20	3.0Max	3.0±0.3	1.60±0.3
BMMS00101040	11.5Max	10.0±0.30	4.0Max	3.0±0.5	2.00±0.5
BMMS00131360	14.2Max	12.6±0.20	6.0Max	3.2±0.3	2.30±0.3

Dimensions in mm

TYPE	A	B	C
BMMS00040412	2.5	2.5	5.2
BMMS00060630	3.5	3.7	8.4
BMMS00101040	4.1	5.4	13.6
BMMS00131360	5.5	8.0	14.5

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00040412R68MX2	0.68	20	100	36(32)	6	4.5	R68
BMMS000404124R7MX2	1.0	20	100	195(175)	2.8	1.8	4R7

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

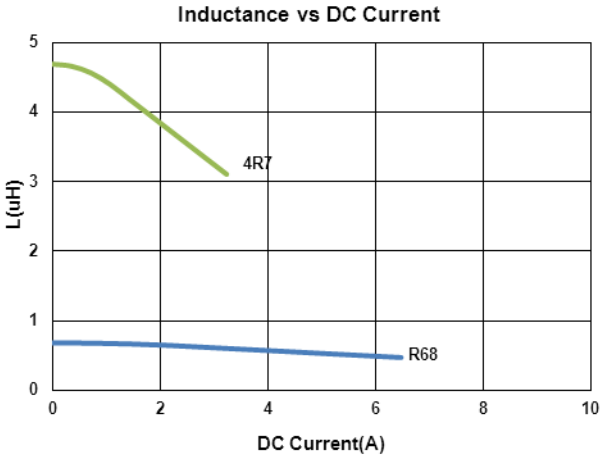
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

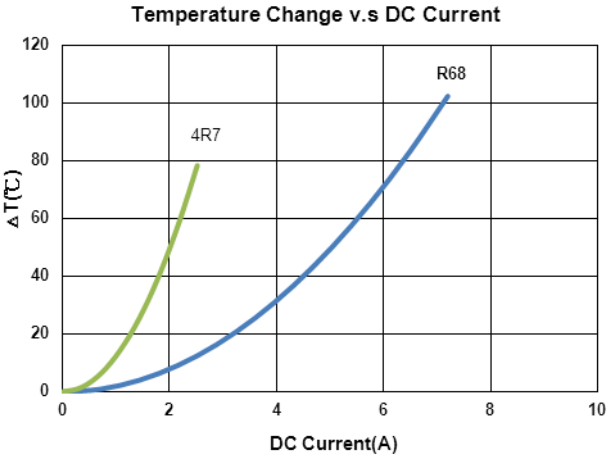
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00060630R47MX2	0.47	20	100	4.1(3.5)	20	18	R47
BMMS000606301R0MX2	1.0	20	100	7.4(6.7)	15	12	1R0
BMMS000606302R2MX2	2.2	20	100	15(13.5)	10	8	2R2
BMMS000606306R8MX2	6.8	20	100	50(43.9)	6	4.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

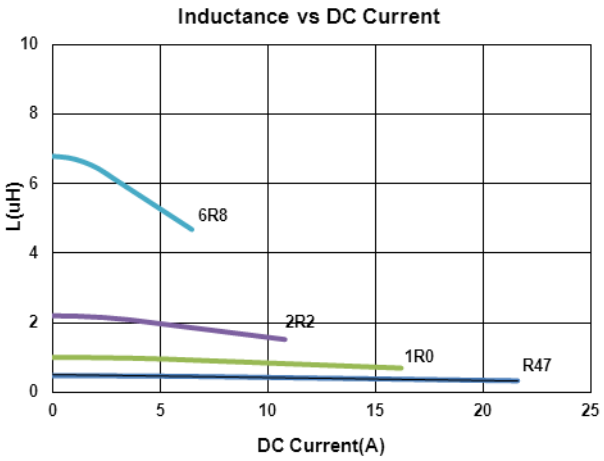
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

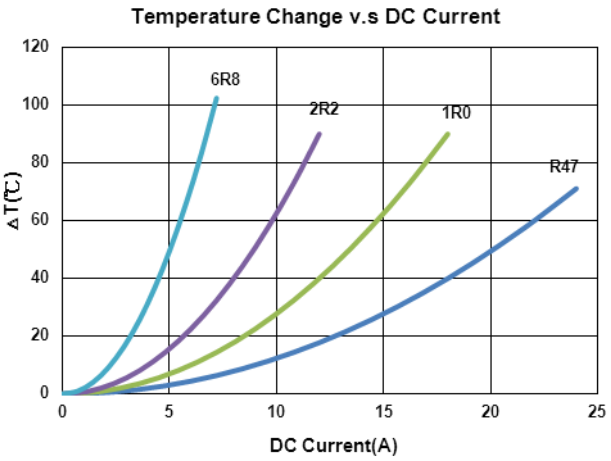
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS001010408R2MX2	8.2	20	100	27(25)	9	6	8R2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

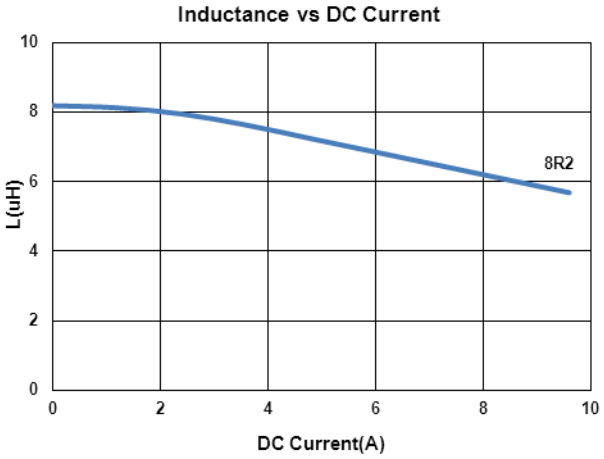
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

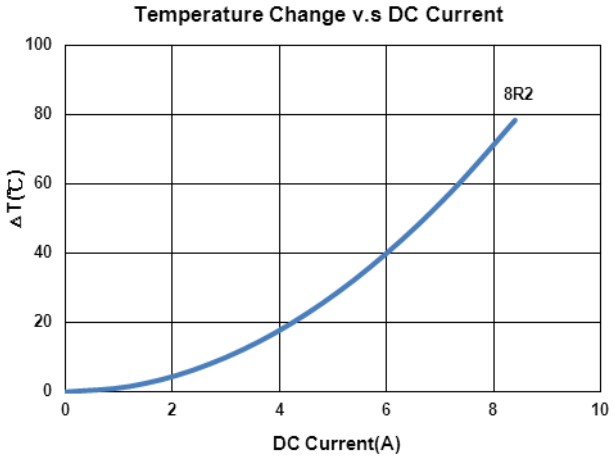
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMMS00131360120MX2	12	20	100	23(20)	10	7	120
BMMS00131360150MX2	15	20	100	29(25)	9	6	150
BMMS00131360220MX2	22	20	100	39.5(34)	7.5	5	220
BMMS00131360330MX2	33	20	100	75(65)	6	4	330
BMMS00131360470MX2	47	20	100	90(80)	5.5	3.5	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

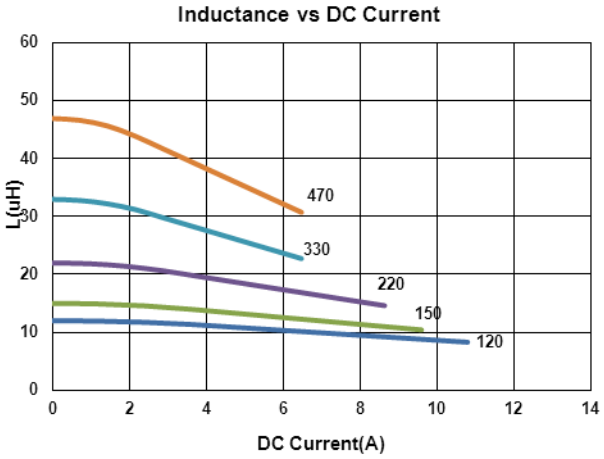
- Operating temperature range - 55℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

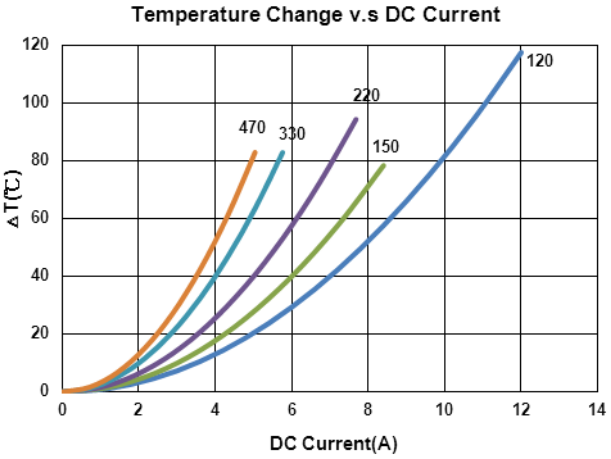
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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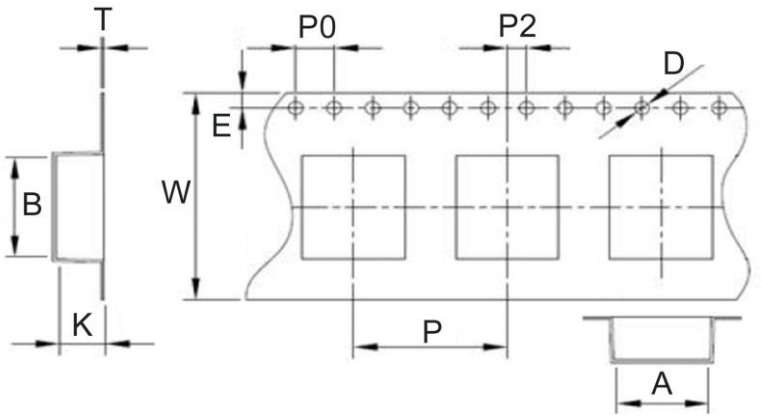
Pulse a YAGEO company

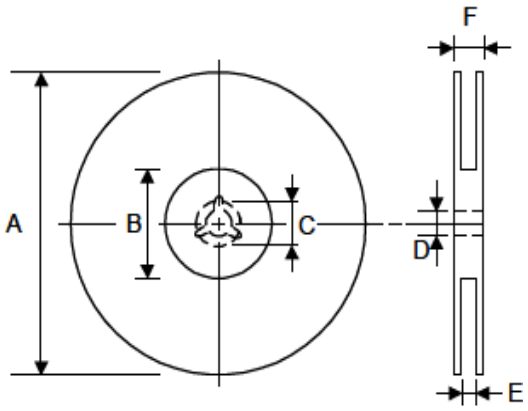
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



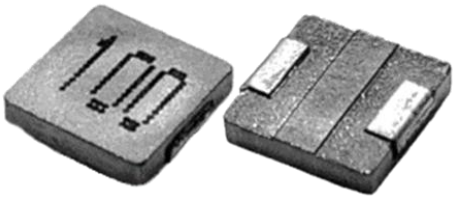
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMNN00040420	4.3	4.4	2.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000

BMNI Series



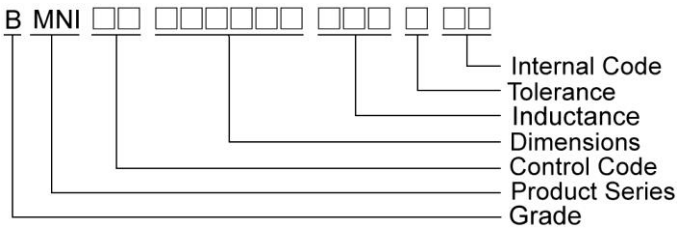
Features

- Low profile molded power inductor
- Low DC resistance and high rating current
- Low profile for limited height application e.g., LED driver
- RoHS compliant, halogen free

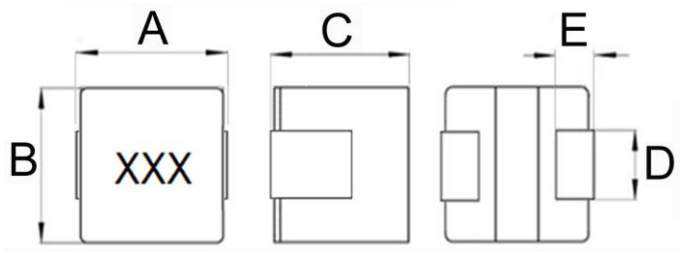
Applications

- Laptop, LCD, LED driver
- Limited height application
- DC to DC boost convertor

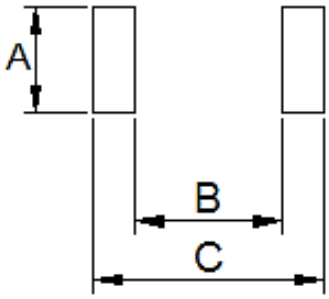
Product Identification



Shape and Dimensions



Recommended Pattern



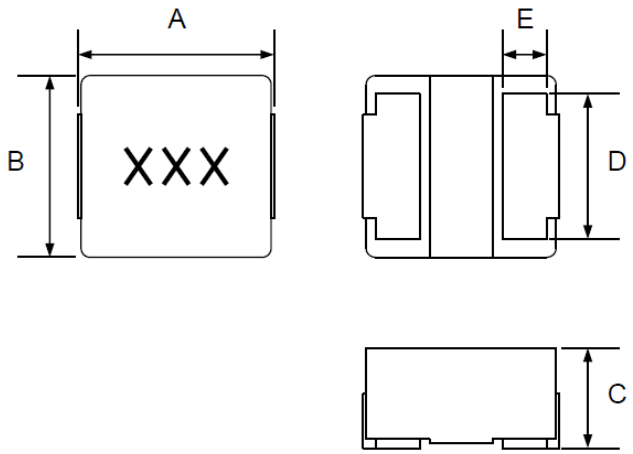
Dimensions in mm

TYPE	A	B	C	D	E
BMNI00040410	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2

Dimensions in mm

TYPE	A	B	C
BMNI00040410	**2.0**	**2.2**	**4.4**

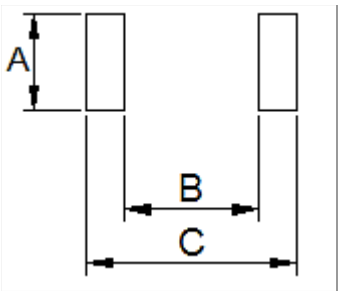
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMNI00040431-XH	4.0±0.3	4.0±0.3	3.1Max	3.4±0.2	1.0±0.4

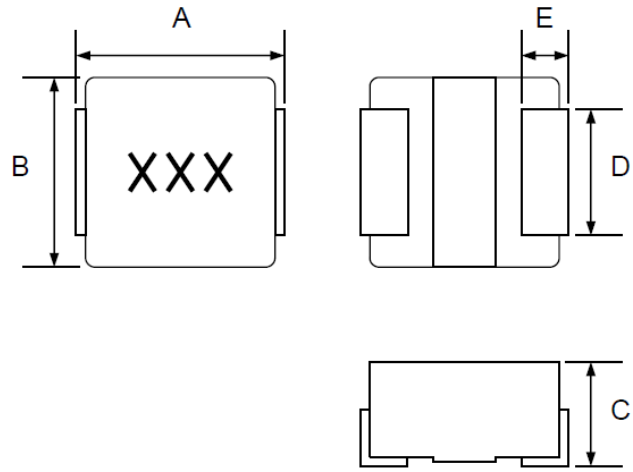
Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMNI00040431-XH	3.7	1.39	4.5

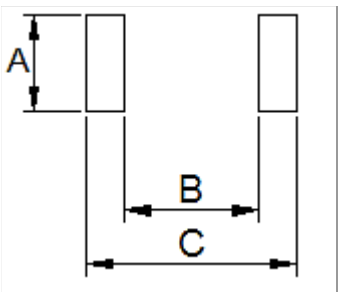
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
BMNI00060631-XH	6.36±0.3	6.56±0.3	3.1Max	4.7±0.2	1.55±0.2
BMNI00060632-XH	6.36±0.3	6.56±0.3	3.2Max	4.7±0.2	1.55±0.2

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
BMNI00060631-XH	5.0	2.61	6.7
BMNI00060632-XH	5.0	2.61	6.7

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMNI00040410100MQX	10	20	100	330(280)	1.75	16.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

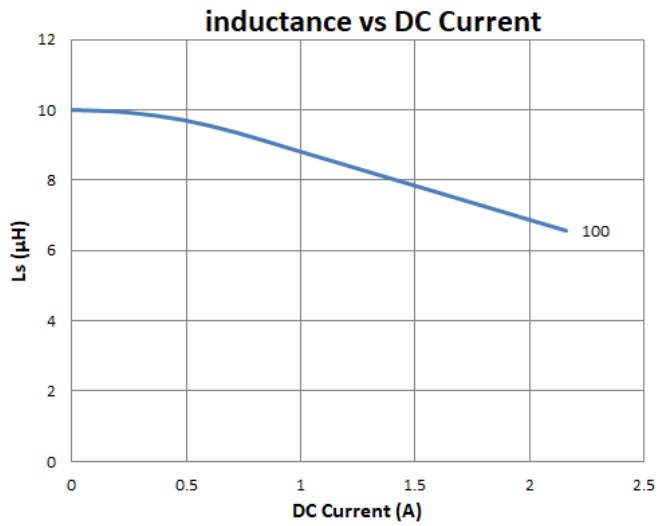
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

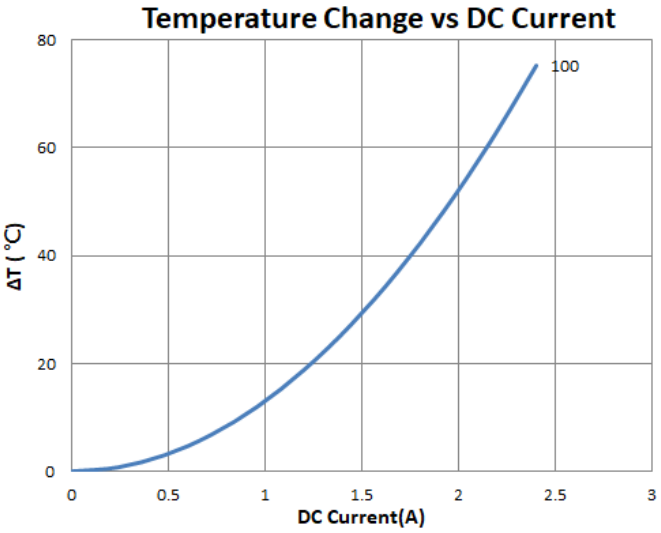
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ.	Irms (A)Typ.	Marking
BMNI000404316R8MXH	6.8	20	100	74.1(67.4)	3.6	3.9	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

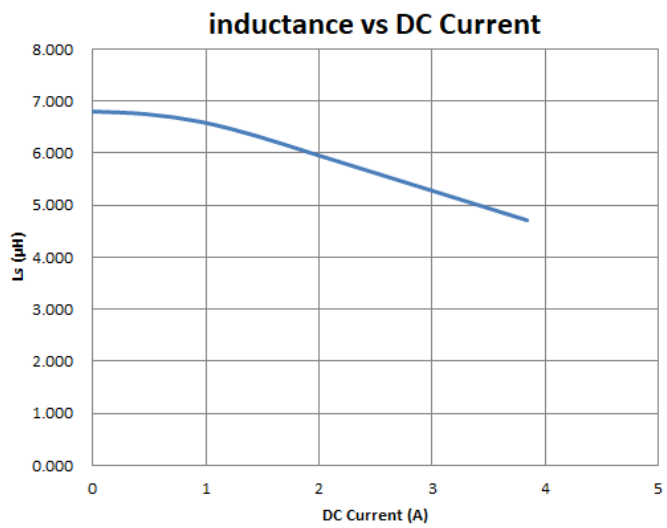
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

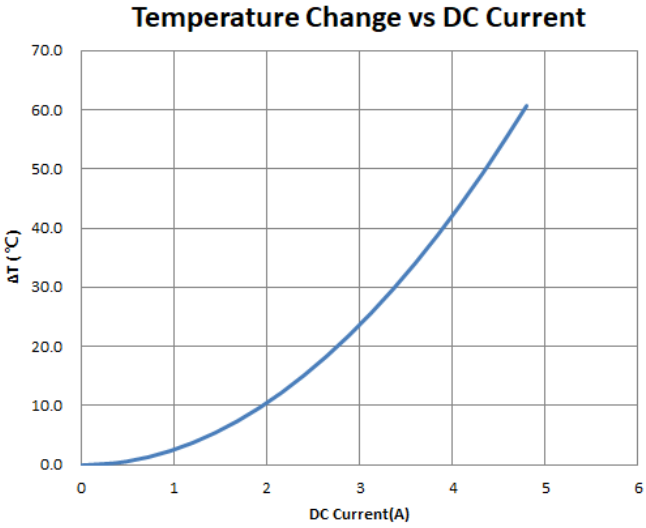
  L：WK 3260B or WK 6500P, 100kHz 0.25V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer



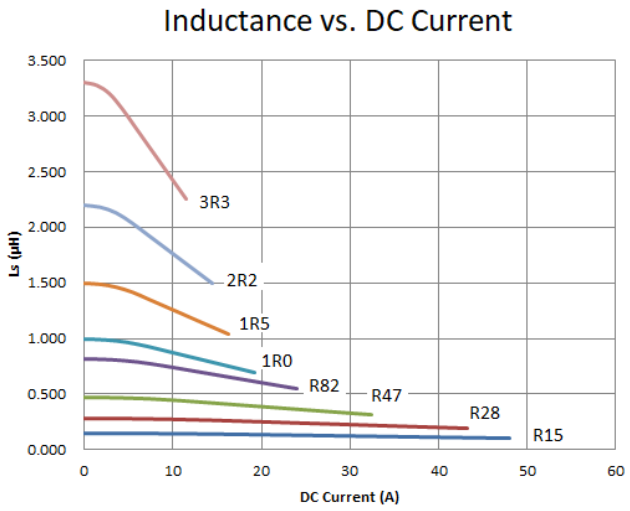


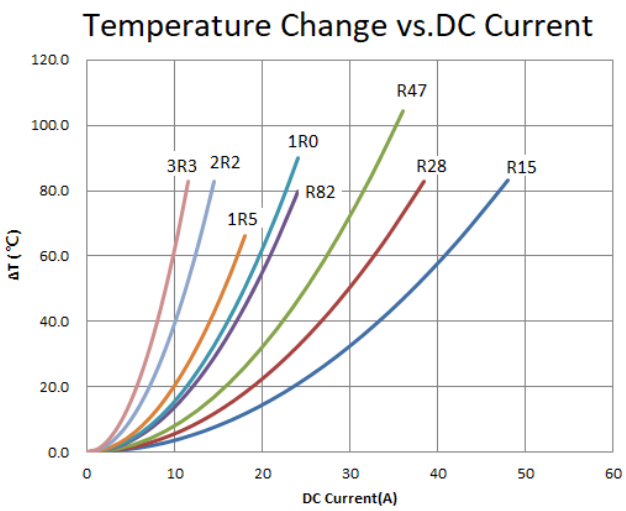
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ.)	Isat (A)Typ	Irms (A)Typ	Marking
BMNI00060632R15MXH	0.15	20	100/0.25V	1.49(1.35)	45	33.3	R15
BMNI00060632R28MXH	0.28	20	100/0.25V	2.35(2.1)	38	26.7	R28
BMNI00060632R47MXH	0.47	20	100/0.25V	3.31(3.01)	28	22.3	R47
BMNI00060632R82MXH	0.82	20	100/0.25V	5.6(5.09)	21	16	R82
BMNI000606321R0MXH	1.0	20	100/0.25V	6.95(6.32)	18	16	1R0
BMNI000606311R5MXH	1.5	20	100/0.25V	10.52(9.57)	15	14	1R5
BMNI000606312R2MXH	2.2	20	100/0.25V	13.97(12.7)	13	10	2R2
BMNI000606313R3MXH	3.3	20	100/0.25V	20.81(19.92)	10.5	8	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

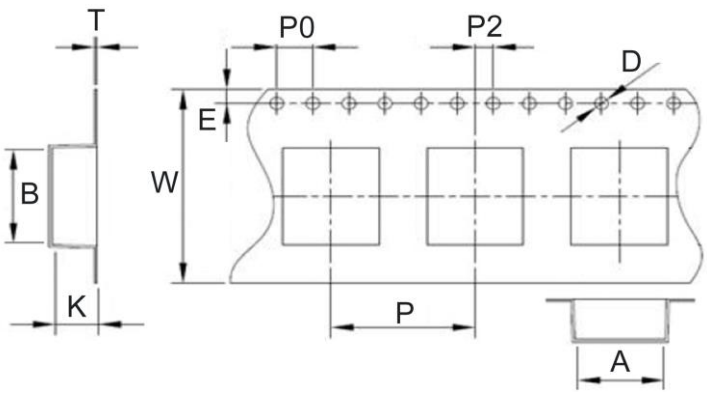
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current



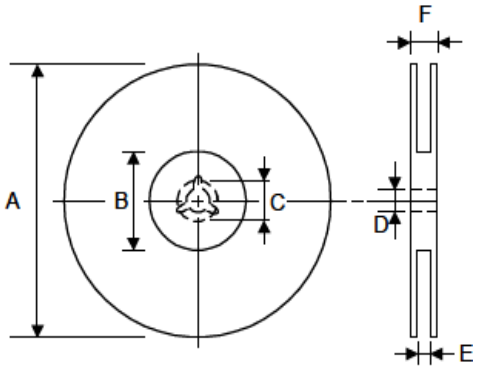


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions						Quantity
	A	B	K	T	D	E	W	P	P0	P2	A	B	C	D	E	F	PCS / REEL
BMNI00040410	4.3	4.4	1.6	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMNI00040431	4.3	4.4	3.5	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	12.4	17.4	2000
BMNI00060631	6.8	6.56	3.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	16.4	21.4	1000
BMNI00060632	6.8	6.56	3.4	0.35	1.5	1.75	12	8	4	2	330	100	21.5	13	16.4	21.4	1000

BWMR Series

BWMR series, metal alloy wire wound power inductor, its rated current could be increased up to 35% compare to ferrite base power inductor.

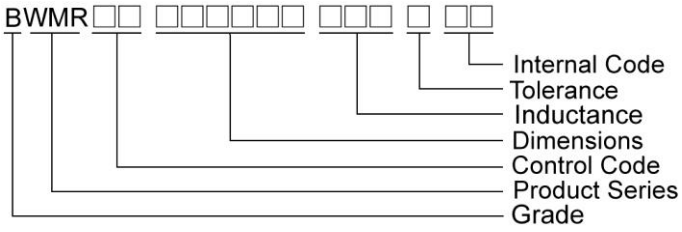
Features

- RoHS, Halogen Free and REACH Compliance
- Constructure Low RDC and high rated current.
- Wide inductance range
- Shielded and miniature package design

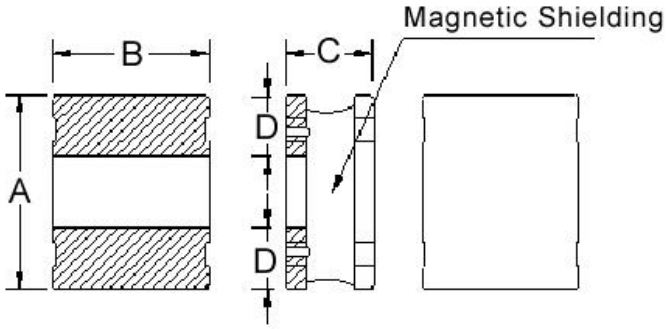
Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- DC/DC converters

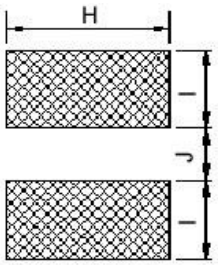
Product Identification



Shape and Dimensions



Recommended Pattern

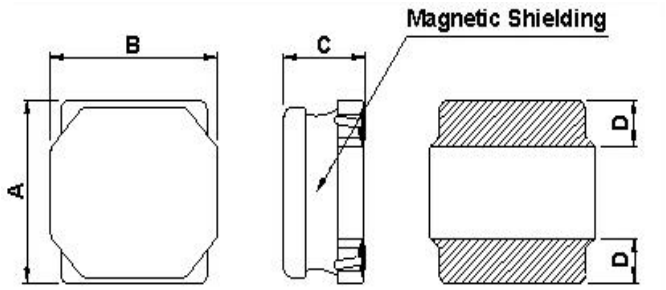


Dimensions in mm

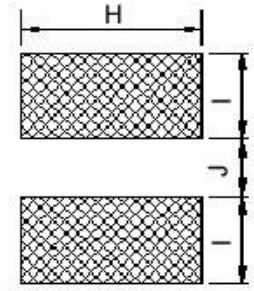
TYPE	A	B	C	D	H	I	J
BWMR00201610	2.0±0.2	1.6±0.2	1.0 Max	0.65	1.7	0.7	0.7
BWMR00201612	2.0±0.2	1.6±0.2	1.2 Max	0.50	1.7	0.6	0.9
BWMR00252010	2.5±0.2	2.0±0.2	1.0 Max	0.85	2.1	0.9	0.8
BWMR00252012	2.5±0.2	2.0±0.2	1.2 Max	0.85	2.1	0.9	0.8
BWMR00302712	3.0±0.2	2.7±0.2	1.2 Max	1.00	2.9	1.1	1.0

Sealed Power Inductors - BWMR Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
BWMR00404012	4.0±0.2	4.0±0.2	1.2 Max	1.0	3.7	1.1	2.0
BWMR00404020	4.0±0.2	4.0±0.2	2.0±0.2	1.0	3.7	1.1	1.9

Electrical Characteristics

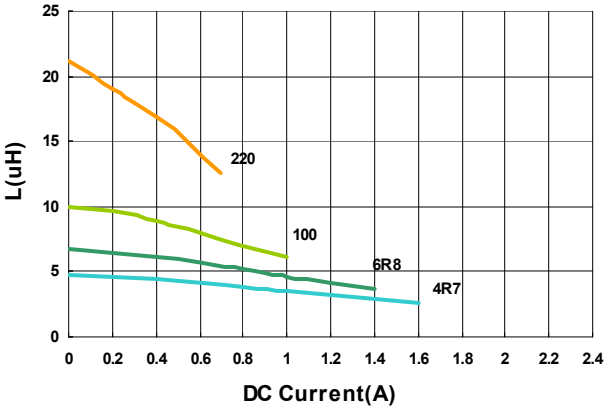
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002016101R0□00	1.0	1	20, 30	64	71.0(85.0)	2.90(2.30)	2.50(2.30)
BWMR002016101R5□00	1.5	1	20, 30	49	103(124)	2.20(1.80)	2.00(1.80)
BWMR002016102R2□00	2.2	1	20, 30	39	145(174)	1.90(1.50)	1.70(1.50)
BWMR002016104R7□00	4.7	1	20, 30	25	370(308)	1.00(1.20)	0.86(0.96)
BWMR002016106R8□00	6.8	1	20, 30	19	526(438)	0.86(0.96)	0.73(0.82)
BWMR00201610100□00	10	1	20, 30	15	768(640)	0.70(0.78)	0.64(0.72)
BWMR00201610220□00	22	1	20, 30	9	1560(1300)	0.49(0.55)	0.40(0.45)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

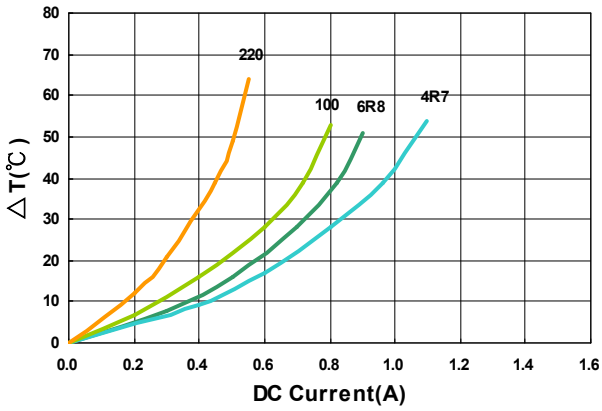
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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Electrical Characteristics

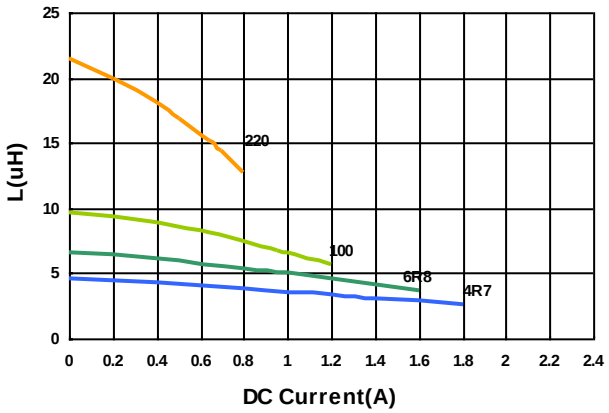
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR002016121R0□00	1.0	1	20, 30	52	86(103)	2.50(2.00)	2.05(1.85)
BWMR002016121R5□00	1.5	1	20, 30	45	113(135)	2.10(1.60)	1.70(1.50)
BWMR002016122R2□00	2.2	1	20, 30	37	131(158)	1.80(1.40)	1.60(1.40)
BWMR002016123R3□00	3.3	1	20, 30	28	192(231)	1.50(1.30)	1.40(1.20)
BWMR00201612-4R7□00	4.7	1	20, 30	26	324(270)	1.20(1.40)	1.00(1.20)
BWMR00201612-6R8□00	6.8	1	20, 30	20	456(380)	1.00(1.20)	0.78(0.92)
BWMR00201612-100□00	10	1	20, 30	16	720(600)	0.85(0.95)	0.65(0.73)
BWMR00201612120□00	12	1	20, 30	14	745(894)	0.77(0.61)	0.71(0.62)
BWMR00201612150□00	15	1	20, 30	13	858(1029)	0.67(0.58)	0.68(0.58)
BWMR00201612-220□00	22	1	20, 30	10	1500(1250)	0.57(0.64)	0.41(0.46)
BWMR00201612101□00	100	1	20, 30	4	6400(7680)	0.26(0.21)	0.23(0.20)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

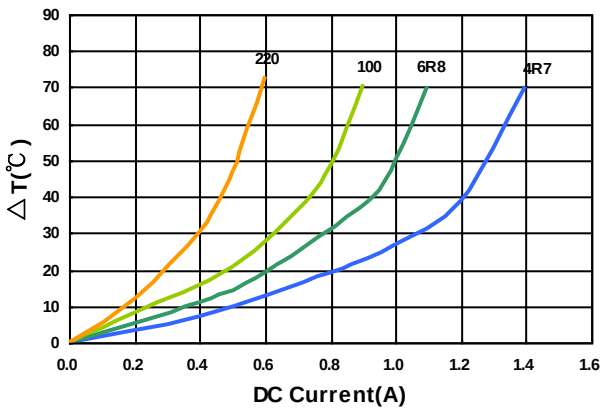
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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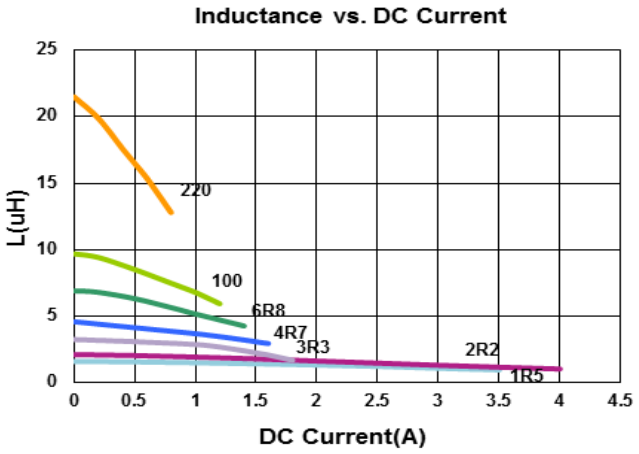
Electrical Characteristics

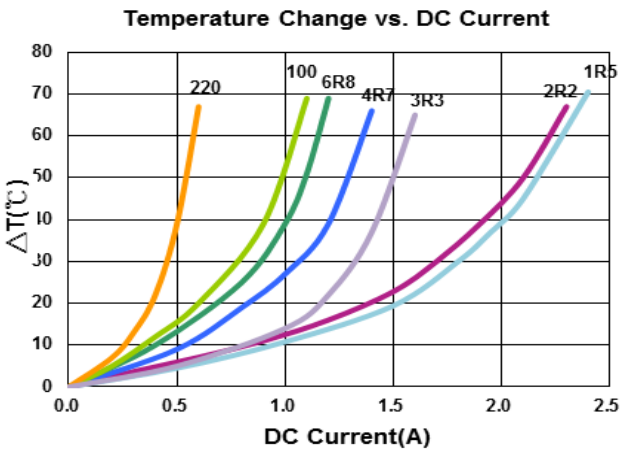
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR00252010R68□00	0.68	1	20, 30	70	43.5(52.2)	4.20(3.30)	3.00(2.70)
BWMR002520101R0□00	1.0	1	20, 30	51	61.5(73.8)	3.70(3.00)	2.60(2.35)
BWMR002520101R5□00	1.5	1	20, 30	40	111.6(93)	2.20(2.80)	1.80(1.95)
BWMR002520102R2□00	2.2	1	20, 30	31	145(121)	1.90(2.30)	1.70(1.90)
BWMR002520103R3□00	3.3	1	20, 30	24	198(165)	1.40(1.60)	1.20(1.40)
BWMR002520104R7□00	4.7	1	20, 30	19	264(220)	1.30(1.40)	1.10(1.20)
BWMR002520106R8□00	6.8	1	20, 30	15	396(330)	1.00(1.10)	0.90(1.00)
BWMR00252010100□00	10	1	20, 30	12	500(435)	0.90(1.00)	0.80(0.90)
BWMR00252010220□00	22	1	20, 30	8	1260(1050)	0.56(0.63)	0.45(0.50)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR00252012R24□00	0.24	1	20, 30	117	21.5(25.8)	7.70(6.20)	4.50(3.90)
BWMR00252012R33□00	0.33	1	20, 30	104	26.5(31.8)	6.60(5.30)	4.05(3.55)
BWMR00252012R47□00	0.47	1	20, 30	71	27.0(32.4)	5.50(5.00)	4.00(3.50)
BWMR00252012R68□00	0.68	1	20, 30	66	36.0(43.2)	4.20(3.50)	3.50(3.10)
BWMR002520121R0□00	1.0	1	20, 30	51	47.0(56.0)	4.00(3.80)	3.30(3.00)
BWMR002520121R5□00	1.5	1	20, 30	38	71.0(85.2)	3.10(2.60)	2.30(2.05)
BWMR002520122R2□00	2.2	1	20, 30	32	110(92)	2.40(2.70)	1.90(2.20)
BWMR002520123R3□00	3.3	1	20, 30	25	186(155)	1.80(2.10)	1.45(1.65)
BWMR002520124R7□00	4.7	1	20, 30	23	240(200)	1.70(1.90)	1.30(1.50)
BWMR002520126R5□00	6.5	1	20, 30	18	250(300)	1.60(1.30)	1.30(1.15)
BWMR002520126R8□00	6.8	1	20, 30	16	345(285)	1.30(1.60)	1.00(1.20)
BWMR00252012100□00	10	1	20, 30	14	480(400)	1.00(1.30)	0.85(1.00)
BWMR00252012150□00	15	1	20, 30	11	629(755)	0.85(0.75)	0.83(0.73)
BWMR00252012220□00	22	1	20, 30	8	1090(910)	0.74(0.83)	0.54(0.60)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
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- Measure Equipment：
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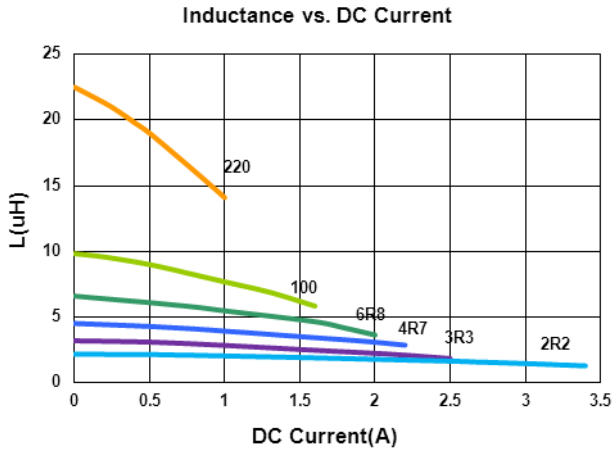
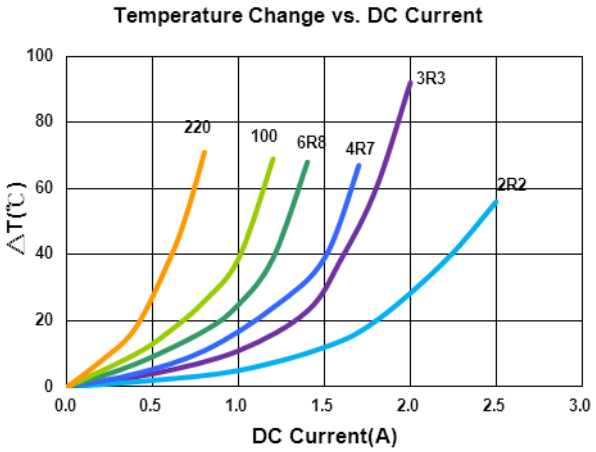
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

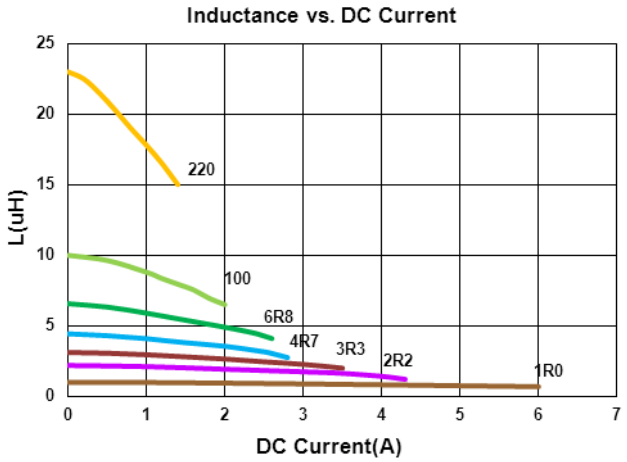
Electrical Characteristics

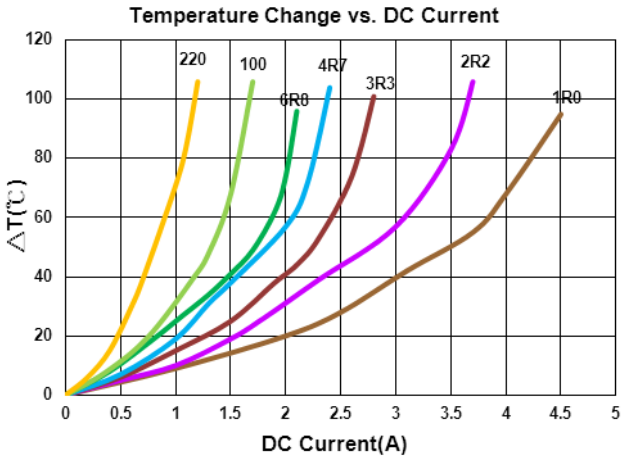
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR003027121R0□00	1.0	1	20, 30	52	64(54)	4.8(5.4)	2.7(3.0)
BWMR003027122R2□00	2.2	1	20, 30	28	114(95)	3.3(3.7)	2.0(2.3)
BWMR003027123R3□00	3.3	1	20, 30	25	165(138)	2.7(3.0)	1.7(1.9)
BWMR003027124R7□00	4.7	1	20, 30	20	234(195)	2.2(2.5)	1.3(1.5)
BWMR003027126R8□00	6.8	1	20, 30	16	318(265)	1.8(2.1)	1.1(1.3)
BWMR00302712100□00	10	1	20, 30	12	444(370)	1.5(1.7)	1.0(1.15)
BWMR00302712220□00	22	1	20, 30	7	954(795)	1.0(1.2)	0.63(0.7)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A

Test Instruments：HP4285A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

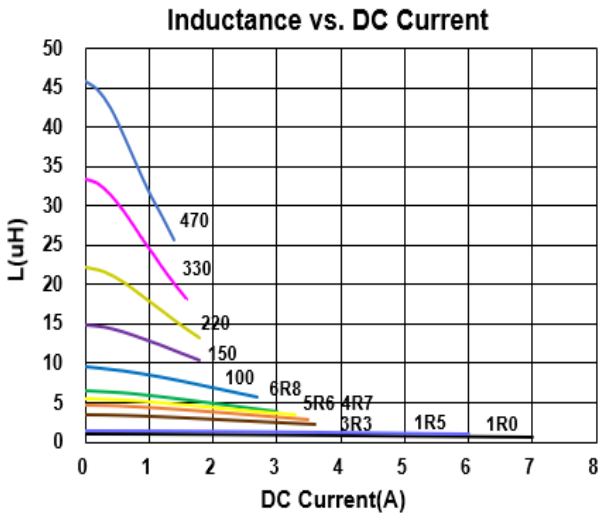
Electrical Characteristics

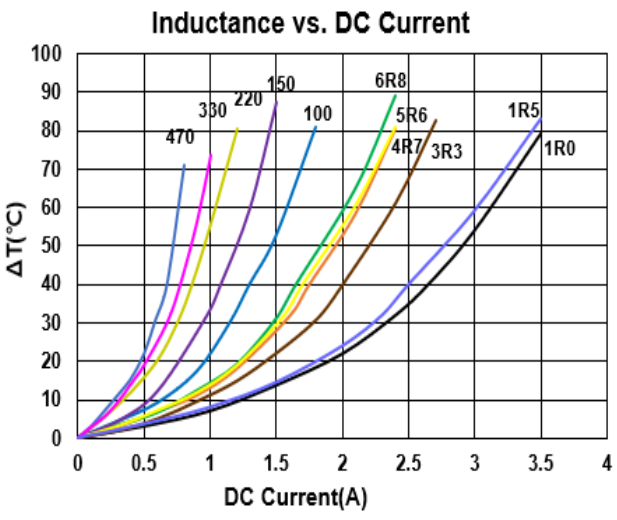
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) (Max) Typ	Isat (A) (Max) Typ	Irms (A) (Max) Typ
BWMR004040121R0□0M	1.0	1	20, 30	60	67(80.4)	5.70(4.70)	2.65(2.40)
BWMR004040121R2□0M	1.2	1	20, 30	51	67(80.4)	4.80(3.70)	2.65(2.40)
BWMR004040121R5□0M	1.5	1	20, 30	42	77(92.4)	4.60(3.60)	2.50(2.30)
BWMR004040123R3□0M	3.3	1	20, 30	26	129(154.8)	3.00(2.40)	2.00(1.80)
BWMR004040124R7□0M	4.7	1	20, 30	18	154(184.8)	2.80(2.20)	1.75(1.60)
BWMR004040125R6□0M	5.6	1	20, 30	17	164(196.8)	2.40(1.90)	1.70(1.55)
BWMR004040126R8□0M	6.8	1	20, 30	15	181(217.2)	2.10(1.60)	1.65(1.50)
BWMR00404012100□0M	10	1	20, 30	12	246(295.2)	1.90(1.50)	1.45(1.39)
BWMR00404012150□0M	15	1	20, 30	11	496(595.2)	1.50(1.20)	1.08(0.96)
BWMR00404012220□0M	22	1	20, 30	9	598(717.6)	1.30(1.00)	0.86(0.75)
BWMR00404012330□0M	33	1	20, 30	7	885(1062)	1.00(0.85)	0.77(0.67)
BWMR00404012470□0M	47	1	20, 30	6	1160(1392)	0.94(0.74)	0.67(0.58)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A, or equivalent

Test Instruments：HP4285A Material/Impedance Analyzer





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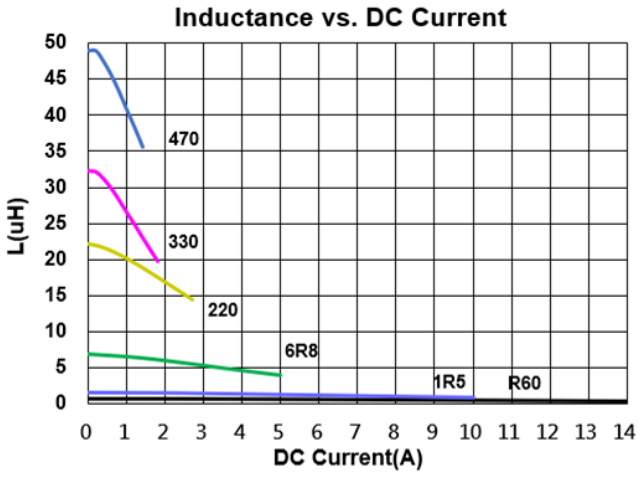
Electrical Characteristics

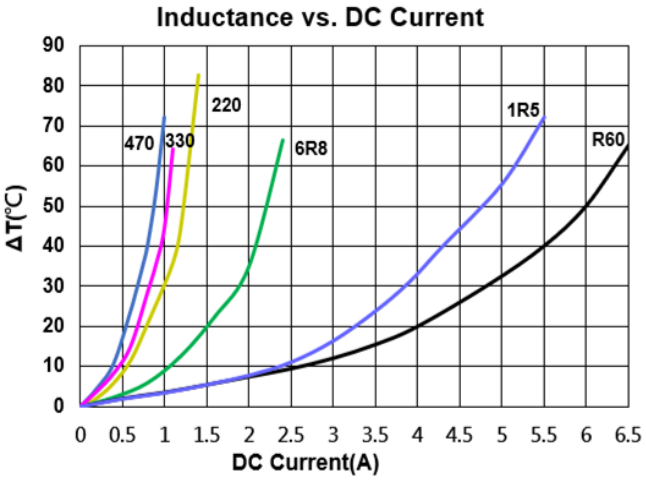
Part Number	Inductance (uH)	Test Frequency (MHz)	Tolerance (±%)	SRF (MHz) Min	RDC(mΩ) Typ.(Max)	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)
BWMR00404020R60□00	0.6	1	20, 30	61	18(22)	11.5(9.50)	5.50(4.85)
BWMR004040201R0□00	1.0	1	20, 30	37	26(31)	10.0(8.00)	5.00(4.50)
BWMR004040201R5□00	1.5	1	20, 30	33	31(37.2)	7.30(5.90)	4.30(3.90)
BWMR004040202R2□00	2.2	1	20, 30	25	44.0(53.0)	7.20(5.80)	3.80(3.40)
BWMR004040203R3□00	3.3	1	20, 30	19	64.0(77.0)	6.00(4.80)	3.10(2.70)
BWMR004040204R7□00	4.7	1	20, 30	17	92.0(110)	4.60(3.70)	2.70(2.40)
BWMR004040206R8□00	6.8	1	20, 30	13	135(162)	4.00(3.20)	2.20(2.00)
BWMR00404020100□00	10	1	20, 30	11	175(210)	3.20(2.50)	2.00(1.80)
BWMR00404020150□00	15	1	20, 30	9	270(324)	2.50(2.00)	1.50(1.30)
BWMR00404020220□00	22	1	20, 30	7	425(510)	2.10(1.70)	1.30(1.10)
BWMR00404020330□00	33	1	20, 30	6	580(696)	1.40(1.10)	0.95(0.80)
BWMR00404020470□00	47	1	20, 30	5	838(1006)	1.20(0.95)	0.75(0.65)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent 4285A+Agilent 42841A, or equivalent,1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent/HP4285A+Agilent 42841A
  SRF：HP4294A+16092A, or equivalent

Test Instruments：HP4285A Material/Impedance Analyzer





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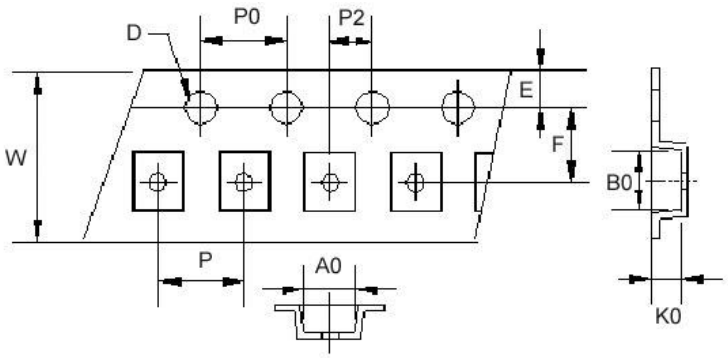
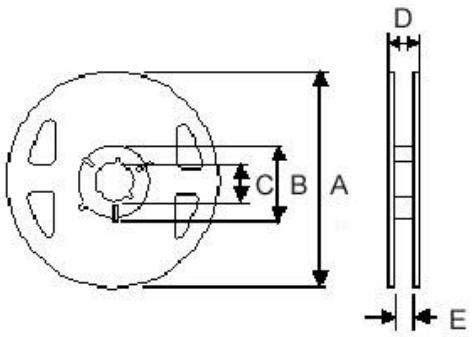
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



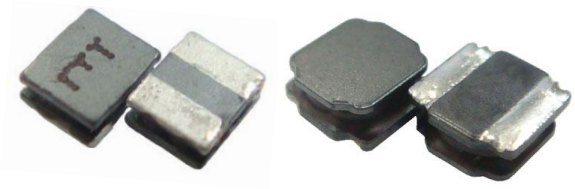
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWMR00201610	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00201612	1.95	2.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252010	2.35	2.80	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00252012	2.35	2.80	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00302712	2.90	3.20	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWMR00404012	4.25	4.25	1.40	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWMR00404020	4.25	4.25	2.40	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800

BWVS Series



BWVS series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for the portable DC-DC converter applications.

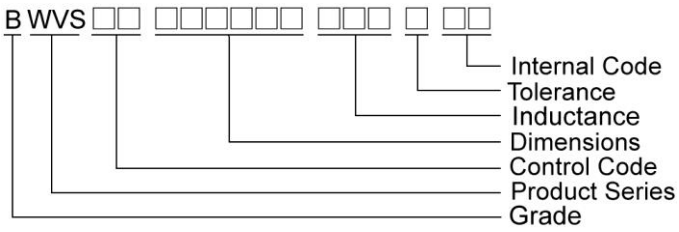
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

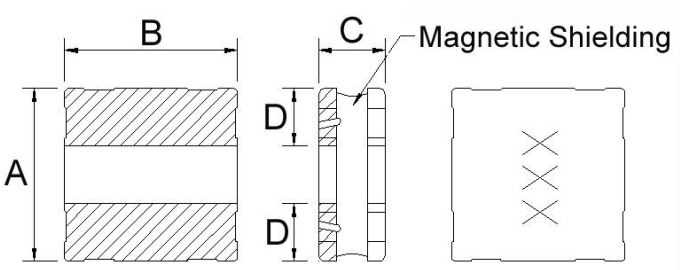
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

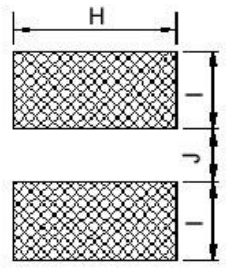


Shape and Dimensions

Figure 1



Recommended Pattern



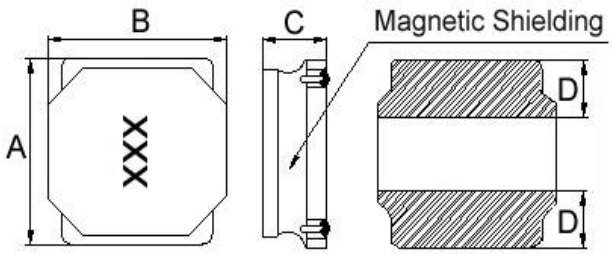
Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVS00322515	1	3.2±0.2	2.5±0.2	1.50±0.2	1.0	2.6	1.2	1.0
BWVS00404012	1	4.0±0.2	4.0±0.2	1.20±0.1	1.5	4.2	1.5	1.2

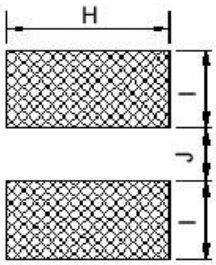
Sealed Power Inductors - BWVS Series

Shape and Dimensions

Figure 2



Recommended Pattern

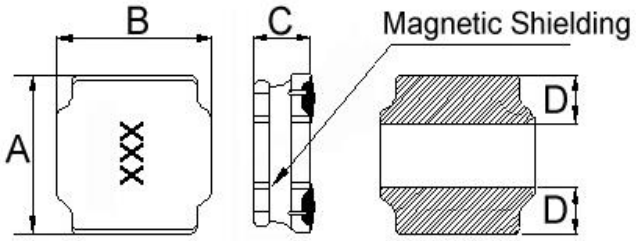


Dimensions in mm

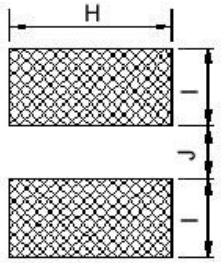
TYPE	FIG	A	B	C	D	H	I	J
BWVS00404018	2	4.0±0.2	4.0±0.2	$1.8^{+0.2}_{-0.30}$	1.3±0.3	3.7	1.2	1.6
BWVS00404026	2	4.0±0.2	4.0±0.2	2.6±0.2	1.4	3.7	1.2	1.6

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVS00505020	3	5.0±0.2	5.0±0.2	$2.0^{+0.2}_{-0.30}$	1.8±0.3	4.0	1.5	2.1
BWVS00505040	3	5.0±0.2	5.0±0.2	$4.0^{+0.2}_{-0.30}$	1.6±0.3	4.0	1.5	2.1
BWVS00606020	3	6.0±0.2	6.0±0.2	$2.0^{+0.2}_{-0.30}$	1.7±0.3	5.7	1.6	2.9
BWVS00606028	3	6.0±0.2	6.0±0.2	$2.8^{+0.2}_{-0.30}$	1.9±0.3	5.7	1.6	2.9
BWVS00606045	3	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.30}$	1.8±0.3	5.7	2.0	2.4
BWVS00808040	3	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	SRF(MHz) Min.	Marking
BWVS00322515R22□00	0.22	20, 30	1MHz,1V	22	4.5(4.0)	4.2(3.7)	300	R22
BWVS00322515R47□00	0.47	20, 30	1MHz,1V	27	3.4(3.0)	3.8(3.4)	168	R47
BWVS003225151R0□00	1.0	20, 30	1MHz,1V	40	2.3(2.0)	3.2(2.8)	95	1R0
BWVS003225151R5□00	1.5	20, 30	1MHz,1V	47	1.8(1.6)	3.0(2.7)	81	1R5
BWVS003225152R2□00	2.2	20, 30	1MHz,1V	57	1.6(1.4)	2.8(2.5)	60	2R2
BWVS003225153R3□00	3.3	20, 30	1MHz,1V	77	1.3(1.1)	2.4(2.1)	45	3R3
BWVS003225154R7□00	4.7	20, 30	1MHz,1V	110	1.1(0.99)	2.0(1.8)	40	4R7
BWVS003225156R8□00	6.8	20, 30	1MHz,1V	160	0.90(0.81)	1.7(1.5)	30	6R8
BWVS00322515100□00	10	20, 30	1MHz,1V	220	0.78(0.70)	1.4(1.2)	25	100
BWVS00322515150□00	15	20, 30	1MHz,1V	320	0.60(0.54)	1.1(0.99)	21	150
BWVS00322515220□00	22	20, 30	1MHz,1V	470	0.50(0.45)	0.95(0.85)	17	220
BWVS00322515330□00	33	20, 30	1MHz,1V	700	0.40(0.36)	0.80(0.72)	12	330
BWVS00322515470□00	47	20, 30	1MHz,1V	1000	0.34(0.30)	0.65(0.58)	11	470
BWVS00322515680□00	68	20, 30	1MHz,1V	1400	0.29(0.26)	0.53(0.47)	9.5	680
BWVS00322515101□00	100	20, 30	1MHz,1V	1900	0.23(0.20)	0.43(0.38)	7.5	101
BWVS00322515121□00	120	20, 30	1MHz,1V	2800	0.20(0.18)	0.36(0.32)	6.7	121
BWVS00322515221□00	220	20, 30	1MHz,1V	4700	0.15(0.13)	0.26(0.23)	5.0	221
BWVS00322515471□00	470	20, 30	1MHz,1V	10000	0.10(0.09)	0.17(0.15)	3.3	471
BWVS00322515681□00	680	20, 30	1MHz,1V	15000	0.08(0.07)	0.14(0.12)	2.5	681
BWVS00322515102□00	1000	20, 30	0.1MHz,1V	23000	0.06(0.05)	0.11(0.09)	2.0	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

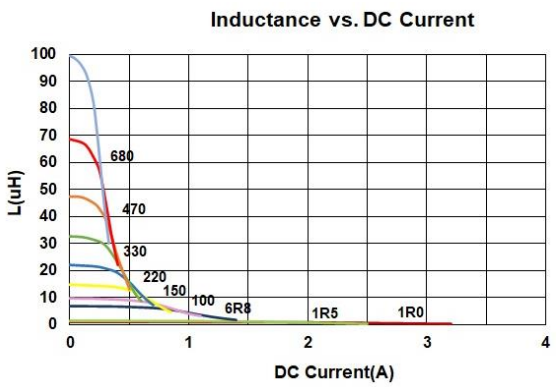
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

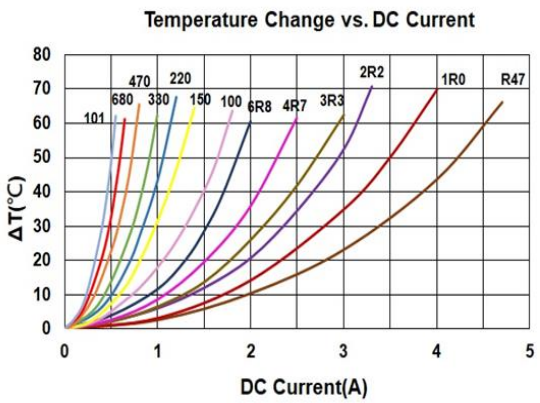
  L：Agilent HP4285A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4285A+ Agilent HP42841A

Test Instruments：HP4285A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040121R0□00	1.0	20, 30	100	48	2.50(2.25)	1.70(1.53)	1R0
BWVS004040121R5□00	1.5	20, 30	100	58	2.10(1.89)	1.60(1.44)	1R5
BWVS004040122R2□00	2.2	20, 30	100	65	1.70(1.53)	1.50(1.35)	2R2
BWVS004040123R3□00	3.3	20, 30	100	90	1.30(1.17)	1.40(1.26)	3R3
BWVS004040124R7□00	4.7	20, 30	100	110	1.10(0.99)	1.20(1.08)	4R7
BWVS004040126R8□00	6.8	20, 30	100	135	0.90(0.81)	1.05(0.94)	6R8
BWVS00404012100□00	10	20, 30	100	190	0.78(0.70)	0.90(0.81)	100
BWVS00404012150□00	15	20, 30	100	250	0.65(0.58)	0.85(0.76)	150
BWVS00404012220□00	22	20, 30	100	400	0.52(0.46)	0.75(0.67)	220
BWVS00404012330□00	33	20, 30	100	600	0.44(0.39)	0.70(0.63)	330
BWVS00404012470□00	47	20, 30	100	930	0.35(0.31)	0.50(0.45)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

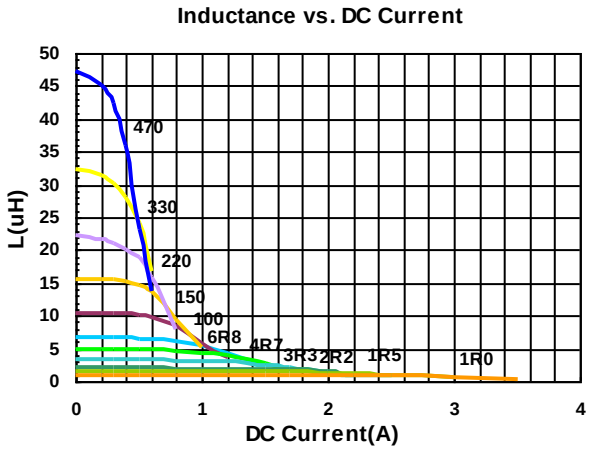
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

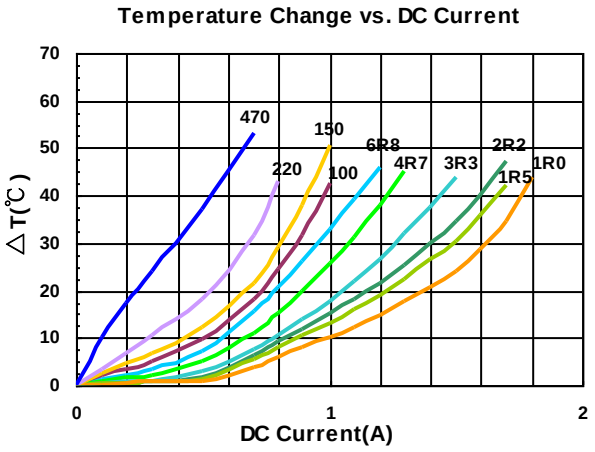
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040181R0□00	1.0	20, 30	100	32	4.10(3.69)	2.80(2.52)	1R0
BWVS004040181R5□00	1.5	20, 30	100	40	3.30(2.97)	2.60(2.34)	1R5
BWVS004040181R8□00	1.8	20, 30	100	55	2.80(2.50)	2.50(2.20)	1R8
BWVS004040182R2□00	2.2	20, 30	100	60	2.80(2.52)	2.50(2.25)	2R2
BWVS004040183R3□00	3.3	20, 30	100	70	2.20(1.98)	2.10(1.89)	3R3
BWVS004040183R6□00	3.6	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R6
BWVS004040183R9□00	3.9	20, 30	100	75	2.10(1.89)	1.90(1.71)	3R9
BWVS004040184R7□00	4.7	20, 30	100	90	2.00(1.80)	1.70(1.53)	4R7
BWVS004040186R8□00	6.8	20, 30	100	110	1.60(1.44)	1.50(1.35)	6R8
BWVS004040188R2□00	8.2	20, 30	100	155	1.50(1.30)	1.30(1.10)	8R2
BWVS00404018100□00	10	20, 30	100	170	1.40(1.26)	1.20(1.08)	100
BWVS00404018150□00	15	20, 30	100	250	1.00(0.90)	1.00(0.90)	150
BWVS00404018220□00	22	20, 30	100	350	0.90(0.81)	0.85(0.76)	220
BWVS00404018330□00	33	20, 30	100	530	0.80(0.72)	0.70(0.63)	330
BWVS00404018470□00	47	20, 30	100	720	0.70(0.63)	0.56(0.50)	470
BWVS00404018680□00	68	20, 30	100	1000	0.56(0.50)	0.45(0.40)	680
BWVS00404018101□00	100	20, 30	100	1500	0.46(0.41)	0.38(0.34)	101
BWVS00404018121□00	120	20, 30	100	1600	0.38(0.34)	0.36(0.32)	121
BWVS00404018151□00	150	20, 30	100	2500	0.35(0.31)	0.30(0.27)	151
BWVS00404018221□00	220	20, 30	100	4000	0.28(0.25)	0.23(0.20)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

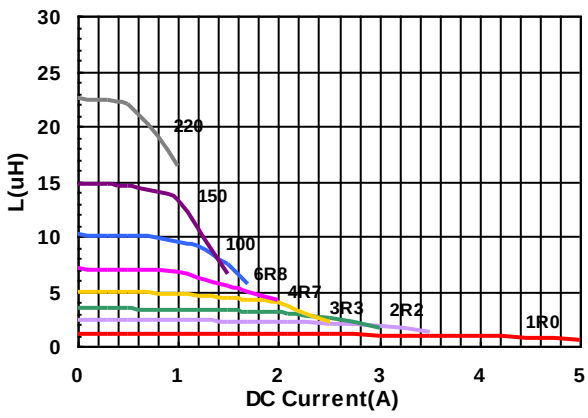
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

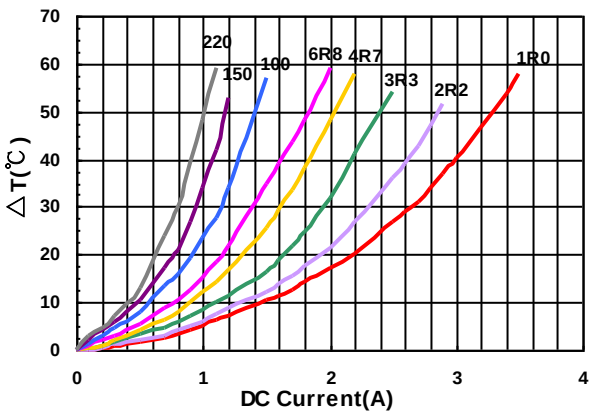
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS004040261R2□00	1.2	20, 30	100	30	3.50(3.15)	3.30(2.97)	1R2
BWVS004040263R3□00	3.3	20, 30	100	45	2.50(2.25)	2.50(2.25)	3R3
BWVS004040264R7□00	4.7	20, 30	100	60	1.80(1.62)	1.80(1.62)	4R7
BWVS00404026220□00	22	20, 30	100	230	0.86(0.77)	1.00(0.90)	220

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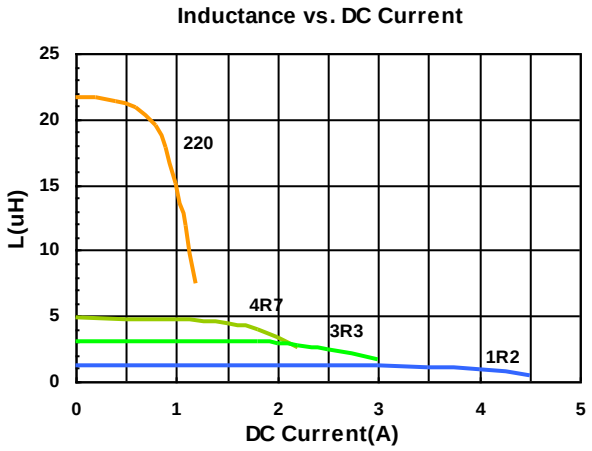
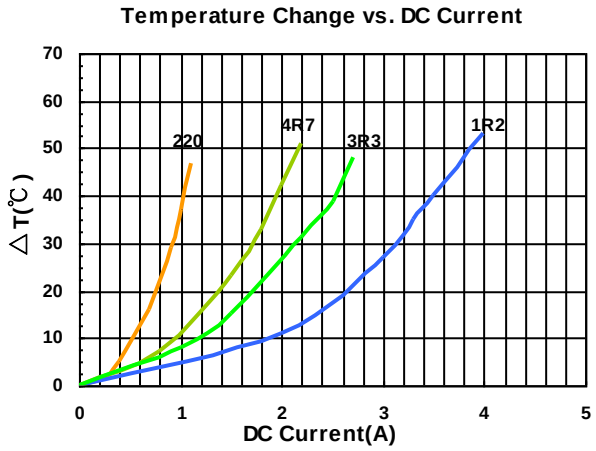
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±20%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS005050201R0□00	1.0	20, 30	100	21	5.1(4.59)	4.0(3.60)	1R0
BWVS005050201R2□00	1.2	30	100	21	4.8(4.32)	3.8(3.42)	1R2
BWVS005050201R5□00	1.5	20, 30	100	26	4.2(3.78)	3.5(3.15)	1R5
BWVS005050202R2□00	2.2	20, 30	100	35	3.4(3.06)	3.2(2.88)	2R2
BWVS005050202R7□00	2.7	20, 30	100	38	3.05(2.7)	2.9(2.60)	2R7
BWVS005050203R3□00	3.3	20, 30	100	48	3.0(2.70)	2.8(2.52)	3R3
BWVS005050204R7□00	4.7	20, 30	100	60	2.2(1.98)	2.2(1.98)	4R7
BWVS005050205R6□00	5.6	20, 30	100	82	2.05(1.84)	2.0(1.80)	5R6
BWVS005050206R8□00	6.8	20, 30	100	90	2.0(1.80)	1.8(1.62)	6R8
BWVS00505020100□00	10	20, 30	100	120	1.6(1.44)	1.6(1.44)	100
BWVS00505020150□00	15	20, 30	100	190	1.3(1.17)	1.2(1.08)	150
BWVS00505020220□00	22	20, 30	100	260	1.0(0.90)	1.0(0.90)	220
BWVS00505020330□00	33	20, 30	100	460	0.8(0.72)	0.75(0.67)	330
BWVS00505020470□00	47	20, 30	100	580	0.65(0.58)	0.65(0.58)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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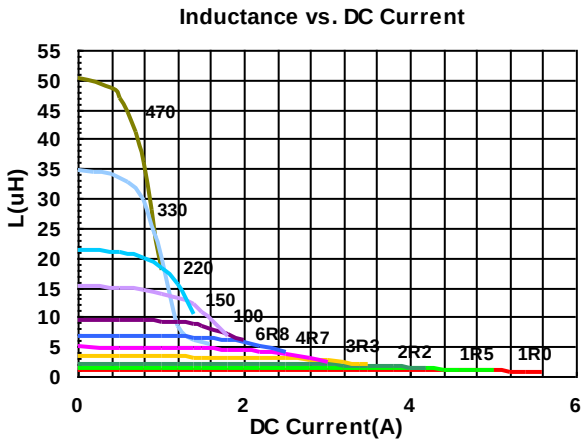
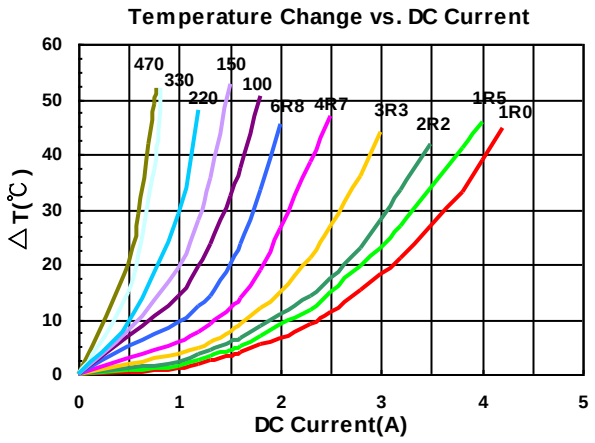
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00505040R68□00	0.68	20, 30	100	10	8.4(7.50)	5.6(5.00)	R68
BWVS005050401R0□00	1.0	20, 30	100	14	7.5(6.75)	4.6(4.14)	1R0
BWVS005050401R2□00	1.2	20, 30	100	15	7.4(6.66)	4.5(4.05)	1R2
BWVS005050401R5□00	1.5	20, 30	100	16	7.1(6.39)	4.4(3.96)	1R5
BWVS005050402R2□00	2.2	20, 30	100	21	5.7(5.13)	3.7(3.33)	2R2
BWVS005050403R0□00	2.2	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R0
BWVS005050403R3□00	3.3	20, 30	100	26	4.8(4.32)	3.5(3.15)	3R3
BWVS005050403R6□00	3.6	20, 30	100	31	4.2(3.70)	3.3(2.90)	3R6
BWVS005050404R7□00	4.7	20, 30	100	32	4.2(3.78)	3.2(2.88)	4R7
BWVS005050405R6□00	5.6	20, 30	100	42	3.7(3.30)	2.8(2.50)	5R6
BWVS005050406R8□00	6.8	20, 30	100	50	3.3(2.97)	2.4(2.16)	6R8
BWVS00505040100□00	10	20, 30	100	60	2.8(2.52)	2.2(1.98)	100
BWVS00505040150□00	15	20, 30	100	90	2.3(2.07)	1.8(1.62)	150
BWVS00505040220□00	22	20, 30	100	135	1.8(1.62)	1.4(1.26)	220
BWVS00505040270□00	27	20, 30	100	180	1.6(1.44)	1.2(1.08)	270
BWVS00505040330□00	33	20, 30	100	190	1.5(1.35)	1.1(0.99)	330
BWVS00505040470□00	47	20, 30	100	310	1.2(1.08)	0.9(0.81)	470
BWVS00505040680□00	68	20, 30	100	540	1.0(0.90)	0.78(0.7)	680
BWVS00505040101□00	100	20, 30	100	800	0.7(0.60)	0.6(0.50)	101

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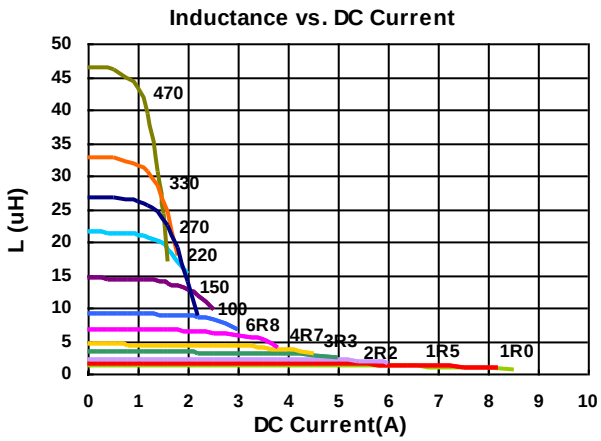
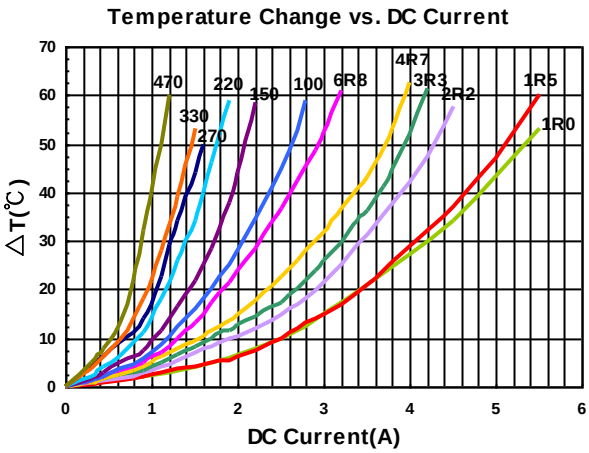
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVS00606020R50□00	0.5	30	100	13	8.0(7.20)	5.3(4.77)	R50
BWVS00606020R90□00	0.9	30	100	18	6.3(5.67)	4.2(3.78)	R90
BWVS006060201R0□00	1.0	30	100	19	6.2(5.58)	4.1(3.69)	1R0
BWVS006060201R5□00	1.5	20, 30	100	26	5.0(4.50)	3.6(3.24)	1R5
BWVS006060202R2□00	2.2	20, 30	100	34	4.2(3.78)	3.2(2.88)	2R2
BWVS006060203R3□00	3.3	20, 30	100	40	3.2(2.88)	2.7(2.43)	3R3
BWVS006060204R7□00	4.7	20, 30	100	58	2.5(2.25)	2.2(1.98)	4R7
BWVS006060206R8□00	6.8	20, 30	100	85	2.2(1.98)	1.8(1.62)	6R8
BWVS00606020100□00	10	20, 30	100	125	2.0(1.80)	1.6(1.44)	100
BWVS00606020150□00	15	20, 30	100	190	1.3(1.17)	1.3(1.17)	150
BWVS00606020220□00	22	20, 30	100	260	1.1(0.99)	1.1(0.99)	220

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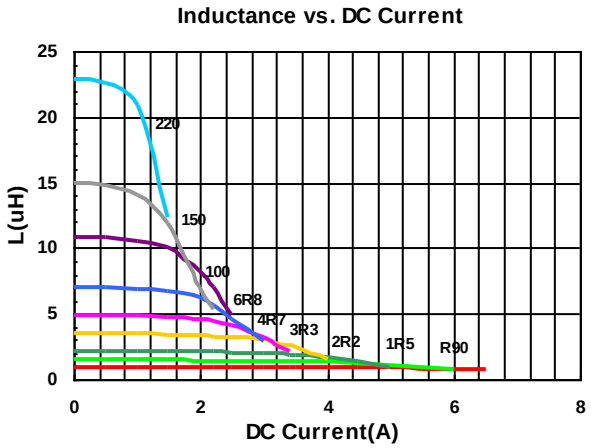
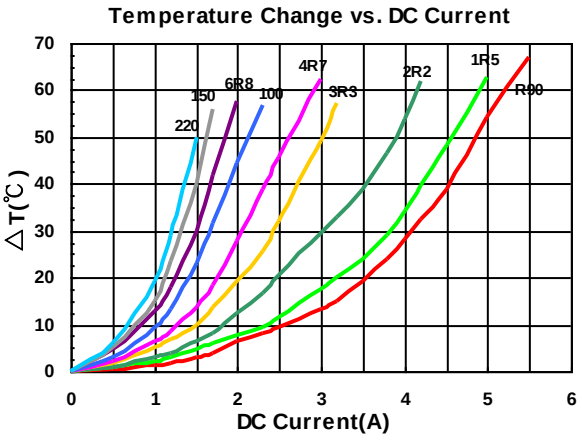
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVS006060281R0□00	1.0	20, 30	100	13	7.6(6.84)	5.2(4.68)	1R0
BWVS006060281R5□00	1.5	20, 30	100	16	6.3(5.67)	4.8(4.32)	1R5
BWVS006060282R2□00	2.2	20, 30	100	20	5.4(4.86)	4.0(3.60)	2R2
BWVS006060282R7□00	2.7	20, 30	100	26	4.9(4.41)	3.7(3.33)	2R7
BWVS006060283R3□00	3.3	20, 30	100	28	4.3(3.87)	3.5(3.15)	3R3
BWVS006060284R7□00	4.7	20, 30	100	38	3.7(3.33)	3.2(2.88)	4R7
BWVS006060286R0□00	6.0	20, 30	100	45	3.3(2.97)	2.8(2.52)	6R0
BWVS006060286R8□00	6.8	20, 30	100	50	3.1(2.79)	2.7(2.43)	6R8
BWVS00606028100□00	10	20, 30	100	65	2.5(2.25)	2.3(2.07)	100
BWVS00606028150□00	15	20, 30	100	95	2.0(1.80)	1.8(1.62)	150
BWVS00606028220□00	22	20, 30	100	135	1.6(1.44)	1.5(1.35)	220
BWVS00606028330□00	33	20, 30	100	220	1.3(1.17)	1.4(1.26)	330
BWVS00606028470□00	47	20, 30	100	320	1.1(0.99)	1.0(0.90)	470
BWVS00606028680□00	68	20, 30	100	420	0.98(0.88)	0.9(0.81)	680
BWVS00606028101□00	100	20, 30	100	600	0.82(0.73)	0.8(0.72)	101

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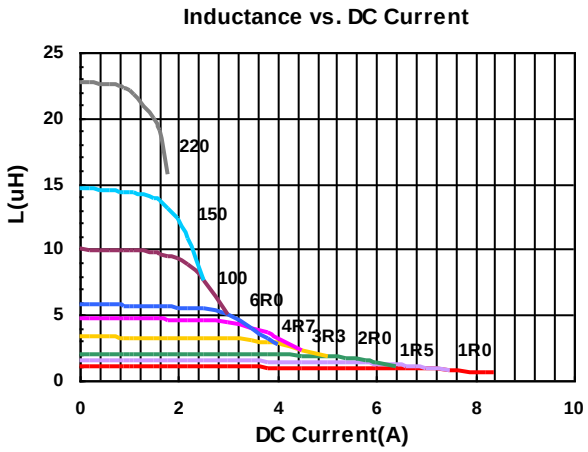

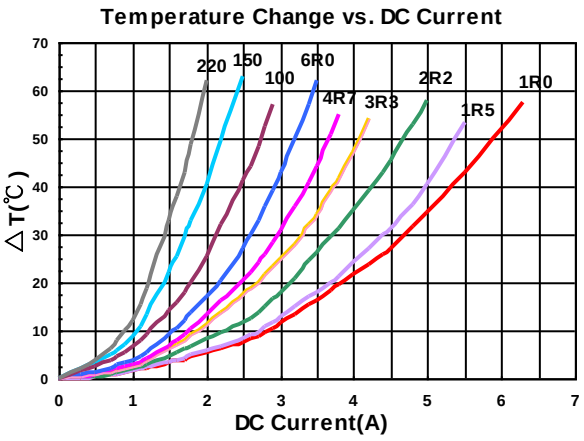

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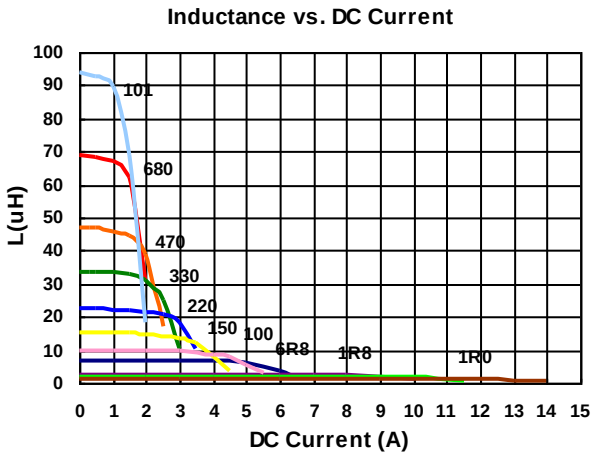
BWVS006060451R0□00	1.0	20, 30	100	12	12.2(10.98)	6.5(5.85)	1R0
BWVS006060451R2□00	1.2	20, 30	100	13	10.6(9.50)	5.9(5.30)	1R2
BWVS006060451R5□00	1.5	20, 30	100	15	10.4(9.36)	5.9(5.31)	1R5
BWVS006060451R8□00	1.8	20, 30	100	17	9.6(8.64)	5.6(5.04)	1R8
BWVS006060452R2□00	2.2	20, 30	100	18.4	8.8(7.92)	5.1(4.59)	2R2
BWVS006060452R3□00	2.3	20, 30	100	19	8.8(7.92)	5.0(4.50)	2R3
BWVS006060453R0□00	3.0	20, 30	100	22	7.8(7.02)	4.4(3.96)	3R0
BWVS006060453R3□00	3.3	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R3
BWVS006060453R6□00	3.6	20, 30	100	24	7.5(6.75)	4.3(3.87)	3R6
BWVS006060453R9□00	3.9	20, 30	100	26	7.0(6.30)	4.0(3.60)	3R9
BWVS006060454R5□00	4.5	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R5
BWVS006060454R7□00	4.7	20, 30	100	31	6.7(6.03)	3.9(3.51)	4R7
BWVS006060455R1□00	5.1	20, 30	100	33	6.0(5.40)	3.5(3.15)	5R1
BWVS006060455R6□00	5.6	20, 30	100	40	5.5(4.95)	3.3(2.97)	5R6
BWVS006060456R3□00	6.3	20, 30	100	40	5.5(4.95)	3.3(2.97)	6R3
BWVS006060456R8□00	6.8	20, 30	100	43	5.3(4.77)	3.2(2.88)	6R8
BWVS006060458R2□00	8.2	20, 30	100	53	4.6(4.10)	2.9(2.60)	8R2
BWVS00606045100□00	10	20, 30	100	57	4.5(4.05)	2.7(2.43)	100
BWVS00606045150□00	15	20, 30	100	80	3.4(3.06)	2.2(1.98)	150
BWVS00606045180□00	18	20, 30	100	100	3.1(2.79)	1.8(1.62)	180
BWVS00606045220□00	22	20, 30	100	125	3.0(2.70)	1.9(1.71)	220
BWVS00606045270□00	27	20, 30	100	160	2.5(2.25)	1.3(1.17)	270
BWVS00606045330□00	33	20, 30	100	165	2.3(2.07)	1.4(1.26)	330
BWVS00606045470□00	47	20, 30	100	245	1.9(1.71)	1.2(1.08)	470
BWVS00606045560□00	56	20, 30	100	310	1.7(1.50)	1.1(0.99)	560
BWVS00606045680□00	68	20, 30	100	330	1.6(1.44)	1.0(0.90)	680
BWVS00606045101□00	100	20, 30	100	500	1.3(1.17)	0.8(0.72)	101
BWVS00606045181□00	180	20, 30	100	1280	0.95(0.85)	0.50(0.45)	181
BWVS00606045221□00	220	20, 30	100	1300	0.82(0.73)	0.38(0.34)	221
BWVS00606045331□00	330	20, 30	100	1800	0.70(0.63)	0.35(0.31)	331
BWVS00606045471□00	470	20, 30	100	2900	0.52(0.46)	0.32(0.28)	471
BWVS00606045561□00	560	20, 30	100	4300	0.57(0.51)	0.29(0.26)	561
BWVS00606045681□00	680	20, 30	100	5000	0.46(0.41)	0.26(0.23)	681
BWVS00606045102□00	1000	20, 30	100	6000	0.40(0.36)	0.22(0.19)	102

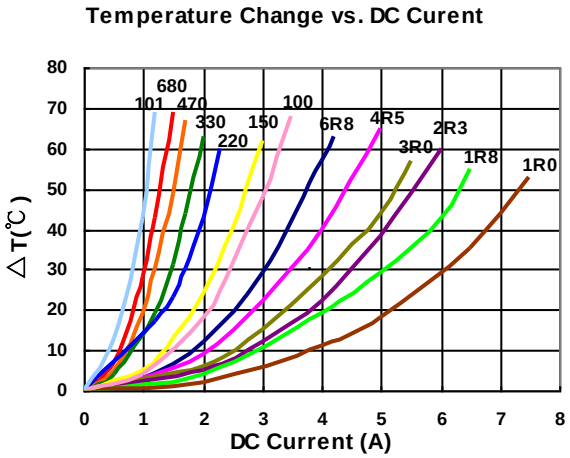
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00606045R47□L1	0.47	30	100	7.8	14.0(12.0)	8.00(7.20)	R47
BWVS00606045R50□L1	0.50	30	100	9	11.0(9.90)	8.00(7.20)	R50
BWVS00606045R68□L1	0.68	20, 30	100	10	10.0(9.00)	7.20(6.48)	R68
BWVS006060452R2□L1	2.2	20, 30	100	17	6.80(6.12)	5.50(4.95)	2R2
BWVS006060453R3□L1	3.3	20, 30	100	24	5.50(4.95)	4.70(4.23)	3R3
BWVS006060454R7□L1	4.7	20, 30	100	30	4.60(4.14)	4.00(3.60)	4R7
BWVS006060456R8□L1	6.8	20, 30	100	40	4.00(3.60)	3.50(3.15)	6R8
BWVS00606045100□L1	10	20, 30	100	50	3.20(2.88)	3.20(2.88)	100
BWVS00606045150□L1	15	20, 30	100	80	2.60(2.34)	2.50(2.25)	150
BWVS00606045220□L1	22	20, 30	100	120	2.10(1.89)	2.00(1.80)	220
BWVS00606045330□L1	33	20, 30	100	170	1.70(1.53)	1.60(1.44)	330
BWVS00606045101□L1	100	20, 30	100	595	0.95(0.85)	0.92(0.82)	101
BWVS00606045151□L1	150	20, 30	100	800	0.88(0.79)	0.82(0.73)	151
BWVS00606045221□L1	220	20, 30	100	1300	0.75(0.67)	0.65(0.58)	221
BWVS00606045681□L1	680	20, 30	100	3300	0.46(0.42)	0.38(0.33)	681

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

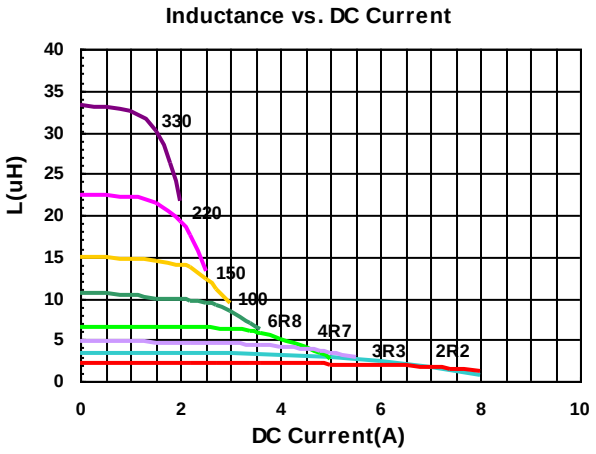
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

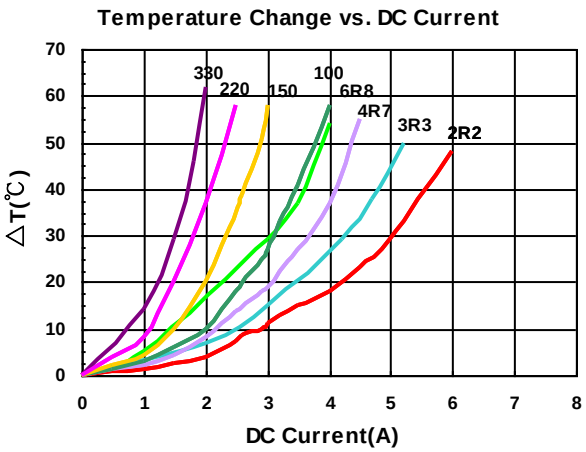
  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS00808040R90□00	0.9	30	100	7	13.8(12.42)	8.05(7.24)	R90
BWVS008080401R0□00	1.0	30	100	7.5	13.0(11.70)	7.95(7.15)	1R0
BWVS008080401R4□00	1.4	30	100	9	10.8(9.72)	7.8(7.02)	1R4
BWVS008080401R5□00	1.5	30	100	9.5	10.0(9.00)	7.7(6.93)	1R5
BWVS008080402R0□00	2.0	20, 30	100	11	9.6(8.64)	7.4(6.66)	2R0
BWVS008080402R2□00	2.2	20, 30	100	11.5	9.2(8.28)	7.2(6.48)	2R2
BWVS008080402R5□00	2.5	20, 30	100	13	8.2(7.38)	6.3(5.67)	2R5
BWVS008080403R3□00	3.3	20, 30	100	15	7.5(6.75)	6.0(5.40)	3R3
BWVS008080403R9□00	3.9	20, 30	100	18	6.1(5.40)	5.5(4.90)	3R9
BWVS008080404R7□00	4.7	20, 30	100	18	6.0(5.40)	5.5(4.95)	4R7
BWVS008080405R6□00	5.6	20, 30	100	23	5.7(5.13)	5.2(4.68)	5R6
BWVS008080406R8□00	6.8	20, 30	100	25	5.4(4.86)	5.1(4.59)	6R8
BWVS00808040100□00	10	20, 30	100	38	4.3(3.87)	3.8(3.42)	100
BWVS00808040120□00	12	20, 30	100	45	3.8(3.42)	3.5(3.15)	120
BWVS00808040150□00	15	20, 30	100	50	3.6(3.24)	3.2(2.88)	150
BWVS00808040180□00	18	20, 30	100	68	3.1(2.79)	2.7(2.43)	180
BWVS00808040220□00	22	20, 30	100	80	2.8(2.52)	2.6(2.34)	220
BWVS00808040330□00	33	20, 30	100	110	2.3(2.07)	2.0(1.80)	330
BWVS00808040470□00	47	20, 30	100	160	1.9(1.71)	1.75(1.57)	470
BWVS00808040510□00	51	20, 30	100	180	1.90(1.71)	1.70(1.53)	510
BWVS00808040680□00	68	20, 30	100	240	1.7(1.53)	1.45(1.30)	680
BWVS00808040101□00	100	20, 30	100	340	1.4(1.26)	1.10(0.99)	101
BWVS00808040121□00	120	20, 30	100	425	1.1(0.99)	1.0(0.90)	121
BWVS00808040151□00	150	20, 30	100	480	1.0(0.90)	0.9(0.81)	151
BWVS00808040181□00	180	20, 30	100	650	0.98(0.88)	0.7(0.63)	181
BWVS00808040221□00	220	20, 30	100	670	0.94(0.84)	0.60(0.54)	221
BWVS00808040271□00	270	20, 30	100	900	0.83(0.74)	0.55(0.49)	271
BWVS00808040331□00	330	20, 30	100	1600	0.80(0.72)	0.46(0.41)	331
BWVS00808040471□00	470	20, 30	100	1800	0.70(0.63)	0.40(0.36)	471
BWVS00808040821□00	820	20, 30	100	2800	0.40(0.36)	0.38(0.34)	821

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：Agilent HP4284A+Agilent HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

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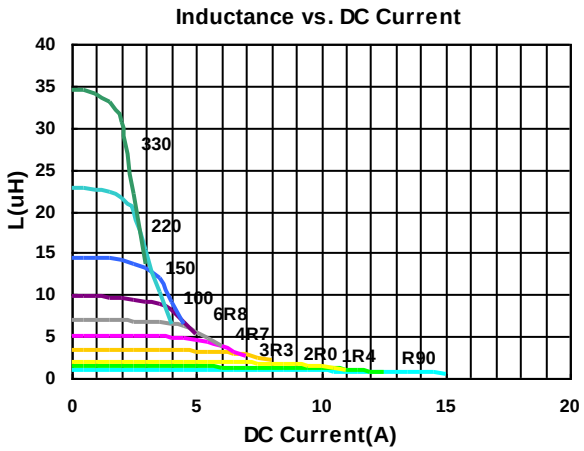
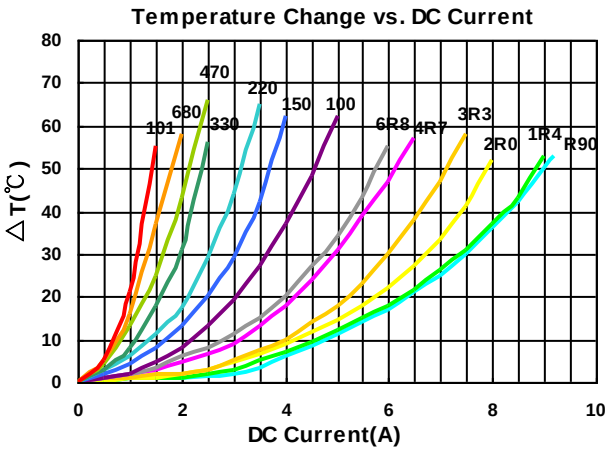
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVS008080401R0□L1	1.0	30	100	10	9.5(8.55)	8.5(7.65)	1R0
BWVS008080402R2□L1	2.2	20,30	100	12	7.2(6.48)	7.3(6.57)	2R2
BWVS008080403R3□L1	3.3	20,30	100	19	5.6(5.04)	6.0(5.40)	3R3
BWVS008080404R7□L1	4.7	20,30	100	22	4.4(3.96)	5.0(4.50)	4R7
BWVS008080408R2□L1	8.2	20,30	100	37	3.6(3.24)	3.8(3.42)	8R2
BWVS00808040100□L1	10	20,30	100	42	3.1(2.79)	3.5(3.15)	100
BWVS00808040150□L1	15	20,30	100	58	2.5(2.25)	3.0(2.70)	150
BWVS00808040220□L1	22	20,30	100	85	2.0(1.80)	2.5(2.25)	220
BWVS00808040331□L1	330	20,30	100	1248	0.76(0.68)	0.78(0.70)	331
BWVS00808040471□L1	470	20,30	100	1690	0.65(0.58)	0.67(0.60)	471
BWVS00808040102□L1	1000	20,30	100	3731	0.45(0.40)	0.40(0.36)	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

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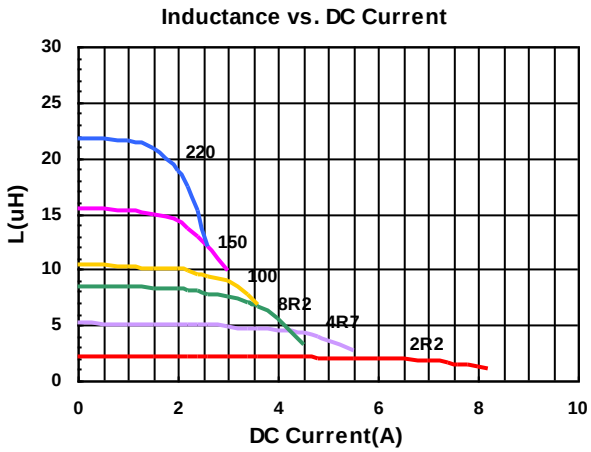
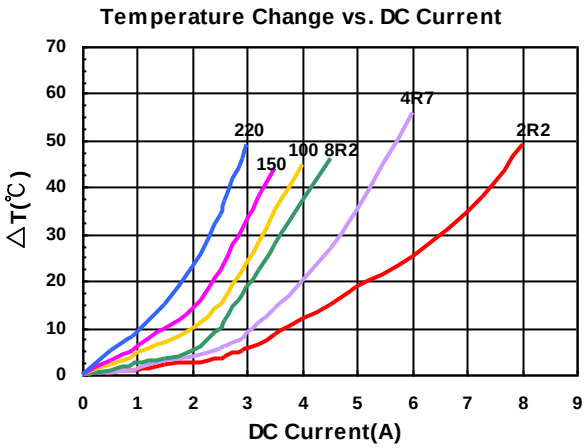
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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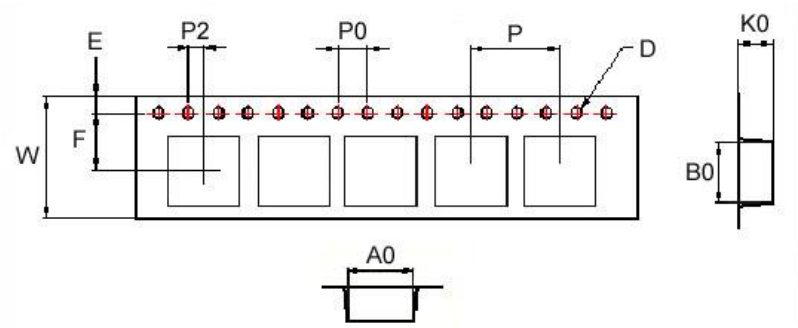
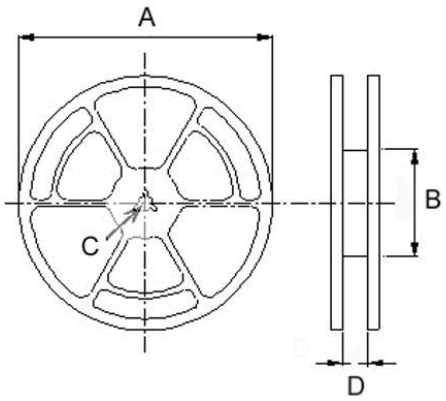
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions				Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	PCS / Reel
BWVS00322515	2.85	3.56	1.80	1.55	1.75	5.5	8	4	4	2	178	60	9	1.50	2000
BWVS00404012	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	1000
BWVS00404018	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	800
BWVS00404026	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	180	60	13	13.2	500
BWVS00505020	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00505040	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	1500
BWVS00606020	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	2000
BWVS00606028	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1500
BWVS00606045	6.25	6.25	4.65	1.55	1.75	7.5	16	12	4	2	330	100	13	16	1000
BWVS00808040	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	1000

BWVF Series

BWVF series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

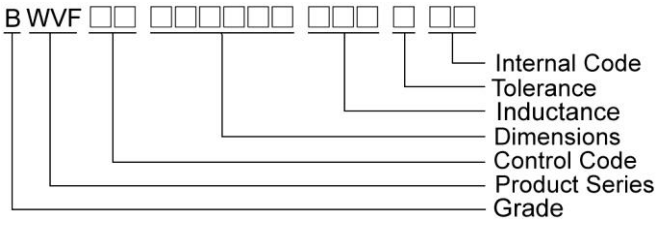
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

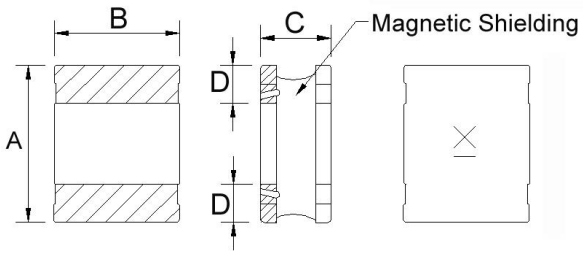
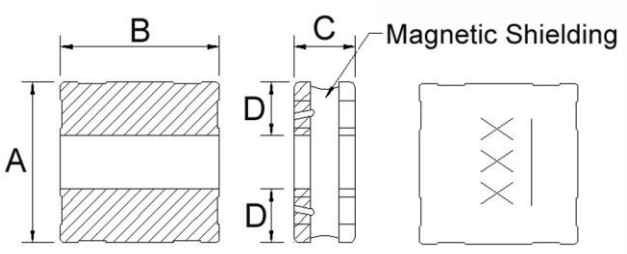


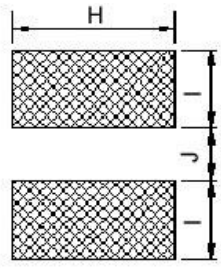
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVF00201612	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.8	0.8
BWVF00252010	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
BWVF00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
BWVF00303010	2	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
BWVF00303012	2	3.0±0.20	3.0±0.20	1.2 Max	1.0	3.2	1.1	1.0
BWVF00303015	2	3.0±0.20	3.0±0.20	1.5 Max	1.0	3.2	1.1	1.0
BWVF00404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2

Recommended Pattern



Shape and Dimensions

Figure 3

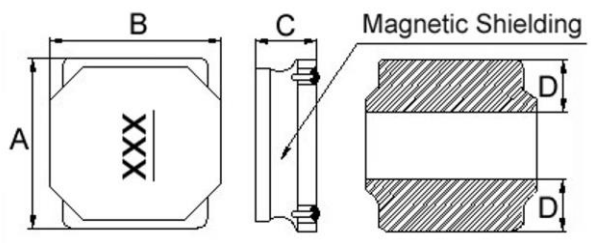
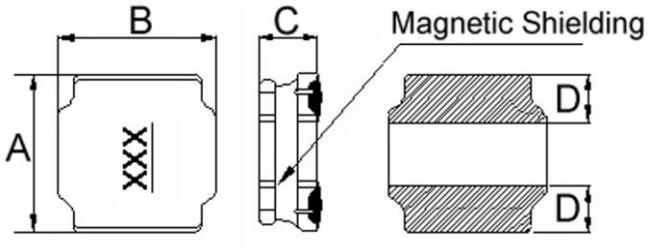


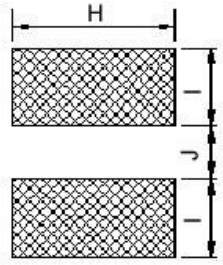
Figure 4



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVF00404015	3	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
BWVF00404018	3	4.0±0.20	4.0±0.20	1.9 Max	1.3	3.7	1.5	1.2
BWVF00404026	3	4.0±0.20	4.0±0.25	2.6±0.2	1.4	3.7	1.6	1.2
BWVF00505020	4	5.0±0.20	5.0±0.20	2.0±0.2	1.8±0.3	4.2	1.6	2.0
BWVF00606020	4	6.0±0.20	6.0±0.20	2.0±0.2	1.7±0.3	5.7	1.7	2.8
BWVF00606028	4	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6
BWVF00808040	4	8.0±0.20	8.0±0.20	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Recommended Pattern



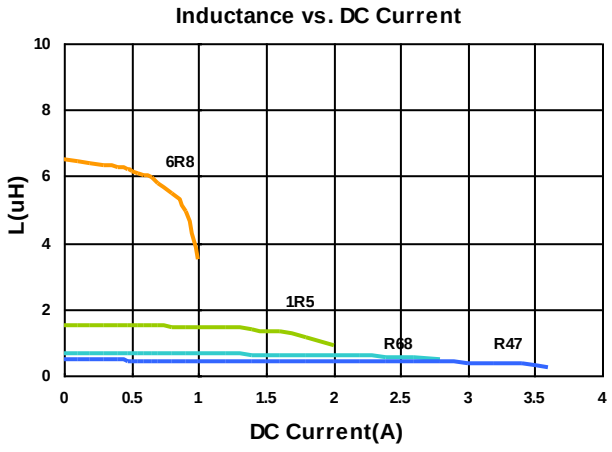
Electrical Characteristics

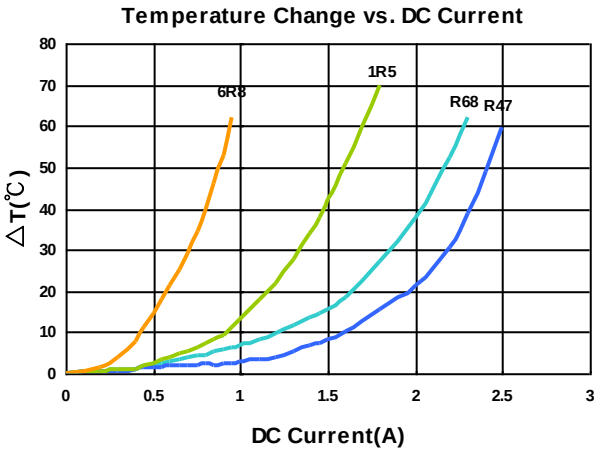
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00201612R47□00	0.47	20, 30	1	0.051	2.70(2.43)	2.30(2.07)	A
BWVF00201612R68□00	0.68	20, 30	1	0.074	2.20(1.98)	2.00(1.80)	L
BWVF002016121R5□00	1.5	20, 30	1	0.130	1.60(1.44)	1.45(1.30)	D
BWVF002016126R8□00	6.8	20, 30	1	0.465	0.82(0.73)	0.78(0.70)	H

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00252010R47□00	0.47	20, 30	1	0.045	2.80(2.52)	2.30(2.07)	A
BWVF002520101R0□00	1.0	20, 30	1	0.066	1.98(1.78)	2.05(1.84)	B
BWVF002520101R5□00	1.5	20, 30	1	0.095	1.70(1.53)	1.85(1.66)	C
BWVF002520104R7□00	4.7	20, 30	1	0.285	0.92(0.82)	0.95(0.85)	F
BWVF00252010100□00	10	20, 30	1	0.535	0.60(0.54)	0.70(0.63)	H
BWVF00252010150□00	15	20, 30	1	0.810	0.50(0.45)	0.55(0.49)	I
BWVF00252010220□00	22	20, 30	1	1.200	0.40(0.36)	0.44(0.39)	J

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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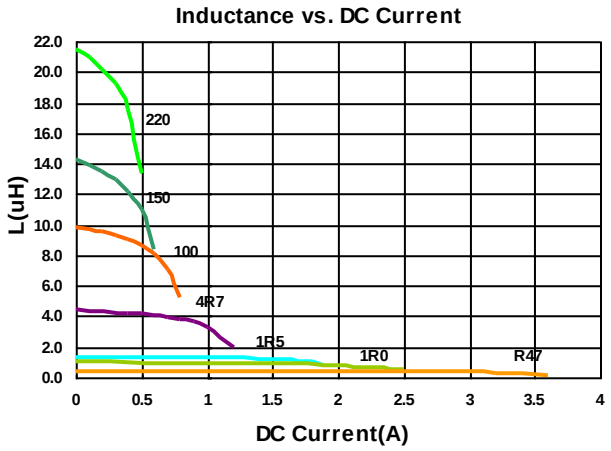
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

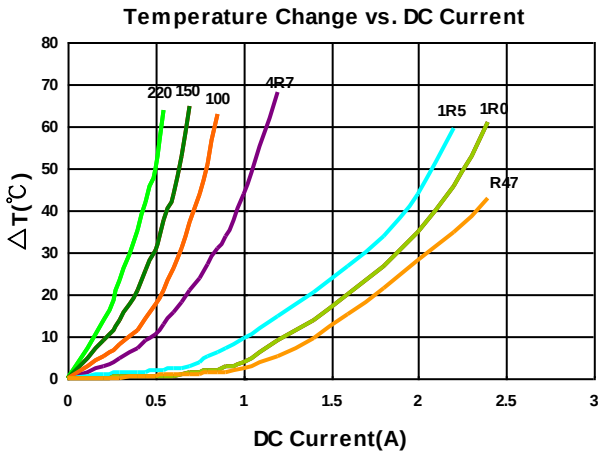
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00252012R50□00	0.50	20, 30	1	0.028	3.50(3.15)	3.00(2.70)	B
BWVF002520121R0□00	1.0	20, 30	1	0.050	2.50(2.25)	2.40(2.16)	C
BWVF002520121R2□00	1.2	20, 30	1	0.053	2.10(1.89)	2.35(2.11)	D
BWVF002520121R5□00	1.5	20, 30	1	0.068	1.95(1.75)	2.30(2.07)	E
BWVF002520122R2□00	2.2	20, 30	1	0.080	1.80(1.62)	1.80(1.62)	F
BWVF002520123R3□00	3.3	20, 30	1	0.130	1.45(1.30)	1.50(1.35)	G
BWVF002520124R7□00	4.7	20, 30	1	0.190	1.10(0.99)	1.10(0.99)	H
BWVF002520125R6□00	5.6	20, 30	1	0.210	1.05(0.94)	1.00(0.90)	I
BWVF002520126R8□00	6.8	20, 30	1	0.300	0.95(0.85)	0.80(0.72)	J
BWVF00252012100□00	10	20, 30	1	0.385	0.88(0.79)	0.70(0.63)	K
BWVF00252012150□00	15	20, 30	1	0.570	0.68(0.61)	0.62(0.55)	L
BWVF00252012220□00	22	20, 30	1	0.810	0.55(0.49)	0.53(0.47)	M

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

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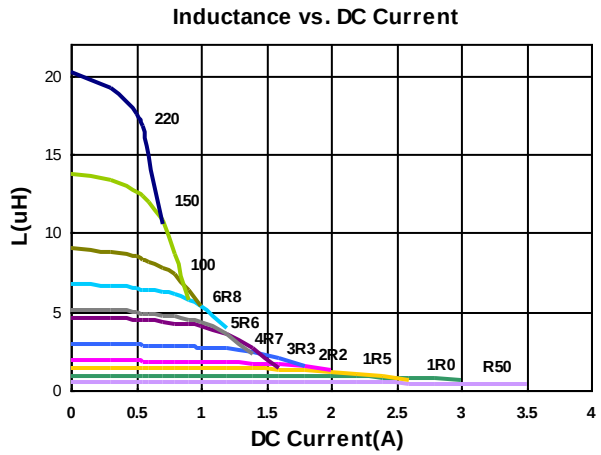
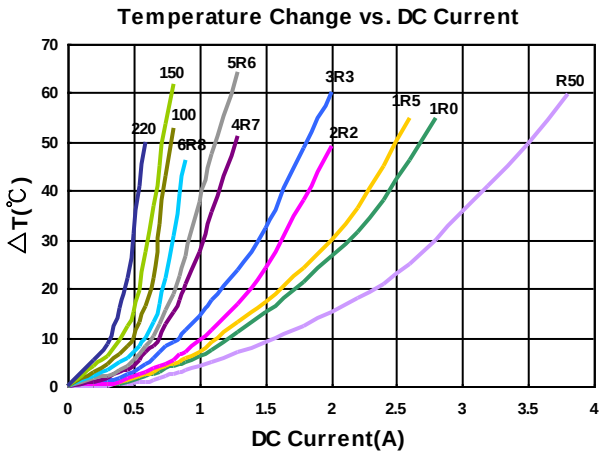
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF003030101R5□00	1.5	20, 30	1	0.085	1.80(1.62)	1.70(1.53)	1R5
BWVF003030102R2□00	2.2	20, 30	1	0.100	1.50(1.35)	1.40(1.26)	2R2
BWVF003030104R7□00	4.7	20, 30	1	0.205	1.00(0.90)	0.95(0.85)	4R7
BWVF003030106R8□00	6.8	20, 30	1	0.310	0.87(0.78)	0.85(0.76)	6R8
BWVF00303010100□00	10	20, 30	1	0.430	0.64(0.57)	0.63(0.56)	100
BWVF00303010150□00	15	20, 30	1	0.625	0.56(0.50)	0.55(0.49)	150
BWVF00303010220□00	22	20, 30	1	0.870	0.47(0.42)	0.46(0.41)	220
BWVF00303010470□00	47	20, 30	1	1.750	0.29(0.26)	0.28(0.25)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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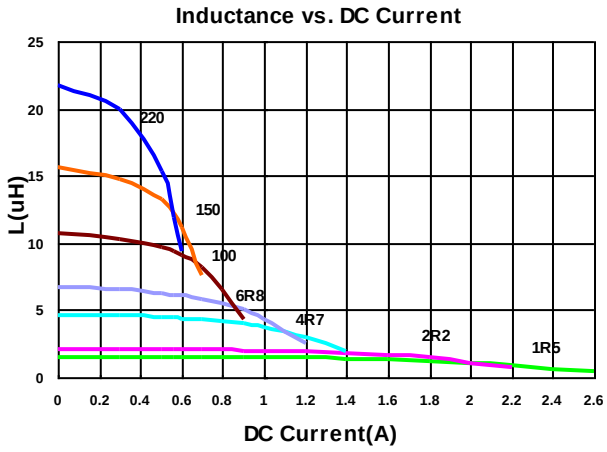
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

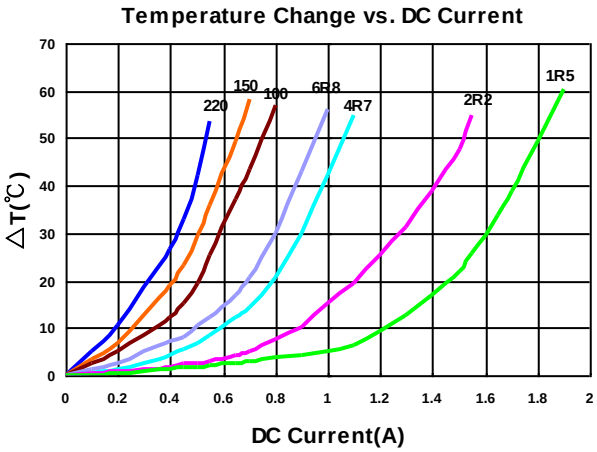
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF003030122R2□00	2.2	20, 30	1	0.092	2.10(1.89)	2.00(1.80)	2R2
BWVF003030123R3□00	3.3	20, 30	1	0.13	1.84(1.65)	1.80(1.62)	3R3
BWVF003030124R7□00	4.7	20, 30	1	0.18	1.56(1.40)	1.52(1.36)	4R7
BWVF003030126R8□00	6.8	20, 30	1	0.25	1.32(1.18)	1.30(1.17)	6R8
BWVF00303012100□00	10	20, 30	1	0.42	1.06(0.95)	1.00(0.90)	100
BWVF00303012150□00	15	20, 30	1	0.56	0.82(0.73)	0.80(0.72)	150
BWVF00303012220□00	22	20, 30	1	0.86	0.64(0.57)	0.62(0.55)	220
BWVF00303012470□00	47	20, 30	1	1.82	0.49(0.44)	0.43(0.38)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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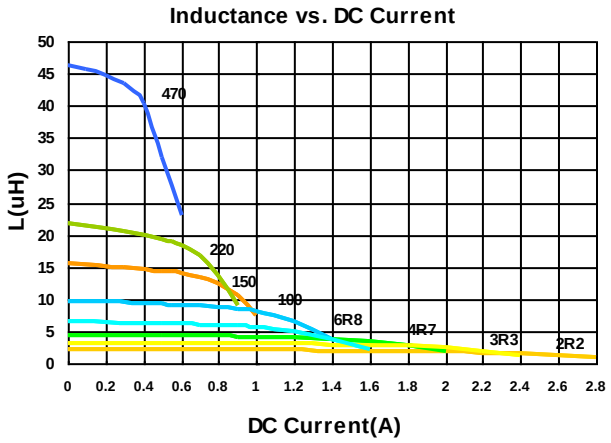
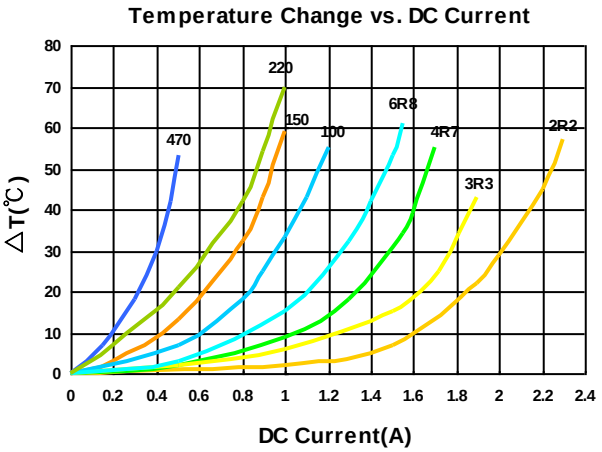
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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BWVF00303015R47□00	0.47	20, 30	1	0.036	4.7(4.23)	4.0(3.60)	R47
BWVF003030151R0□00	1.0	20, 30	1	0.054	3.4(3.06)	3.0(2.70)	1R0
BWVF003030151R5□00	1.5	20, 30	1	0.063	3.0(2.70)	2.6(2.34)	1R5
BWVF003030152R2□00	2.2	20, 30	1	0.090	2.3(2.07)	2.0(1.80)	2R2
BWVF003030153R3□00	3.3	20, 30	1	0.125	1.9(1.71)	1.80(1.62)	3R3
BWVF003030154R7□00	4.7	20, 30	1	0.170	1.58(1.42)	1.52(1.36)	4R7
BWVF003030156R8□00	6.8	20, 30	1	0.235	1.34(1.20)	1.30(1.17)	6R8
BWVF00303015100□00	10	20, 30	1	0.360	1.06(0.95)	1.00(0.90)	100
BWVF00303015150□00	15	20, 30	1	0.550	0.90(0.81)	0.80(0.72)	150
BWVF00303015220□00	22	20, 30	1	0.770	0.76(0.68)	0.65(0.58)	220
BWVF00303015330□00	33	20, 30	1	0.930	0.65(0.58)	0.60(0.54)	330
BWVF00303015470□00	47	20, 30	1	1.500	0.52(0.46)	0.42(0.37)	470
BWVF00303015101□00	100	20, 30	1	2.700	0.36(0.32)	0.3(0.27)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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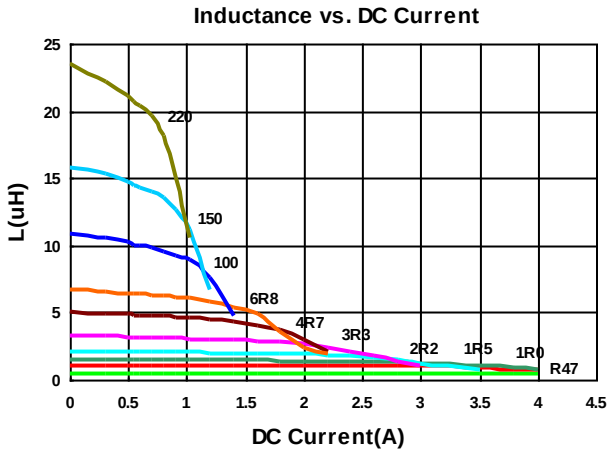

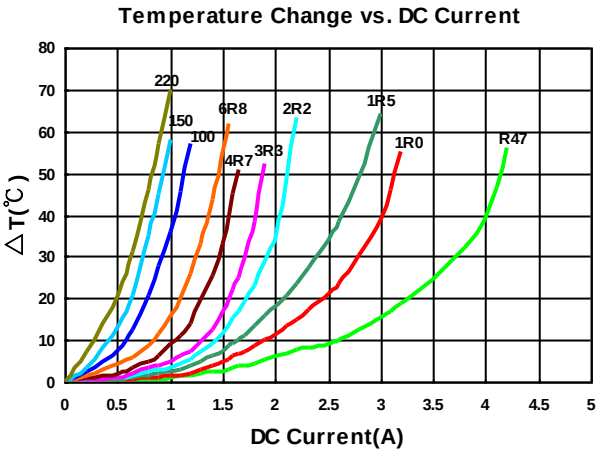

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BWVF00303015R24□L1	0.24	20, 30	1	0.023	6.0(5.4)	4.3(3.8)	R24
BWVF00303015R47□L1	0.47	20, 30	1	0.03	4.3(3.9)	3.7(3.3)	R47
BWVF00303015R68□L1	0.68	20, 30	1	0.036	3.8(3.4)	3.3(2.9)	R68
BWVF003030151R0□L1	1.0	20, 30	1	0.038	2.7(2.4)	3.2(2.9)	1R0
BWVF003030152R2□L1	2.2	20, 30	1	0.06	2.0(1.8)	2.8(2.5)	2R2
BWVF003030153R3□L1	3.3	20, 30	1	0.095	1.8(1.6)	2.0(1.8)	3R3
BWVF003030154R7□L1	4.7	20, 30	1	0.12	1.5(1.3)	1.7(1.5)	4R7
BWVF003030156R8□L1	6.8	20, 30	1	0.16	1.2(1.0)	1.4(1.2)	6R8
BWVF00303015100□L1	10	20, 30	1	0.22	1.0(0.9)	1.1(0.99)	100
BWVF00303015150□L1	15	20, 30	1	0.36	0.80(0.72)	0.95(0.85)	150
BWVF00303015220□L1	22	20, 30	1	0.5	0.68(0.61)	0.80(0.72)	220
BWVF00303015330□L1	33	20, 30	1	0.7	0.55(0.49)	0.67(0.60)	330
BWVF00303015470□L1	47	20, 30	1	1	0.45(0.40)	0.56(0.50)	470
BWVF00303015560□L1	56	20, 30	1	1.1	0.40(0.36)	0.54(0.48)	560
BWVF00303015680□L1	68	20, 30	1	1.4	0.37(0.33)	0.52(0.46)	680
BWVF00303015101□L1	100	20, 30	1	1.7	0.30(0.27)	0.45(0.40)	101
BWVF00303015151□L1	150	20, 30	1	3.2	0.22(0.19)	0.30(0.27)	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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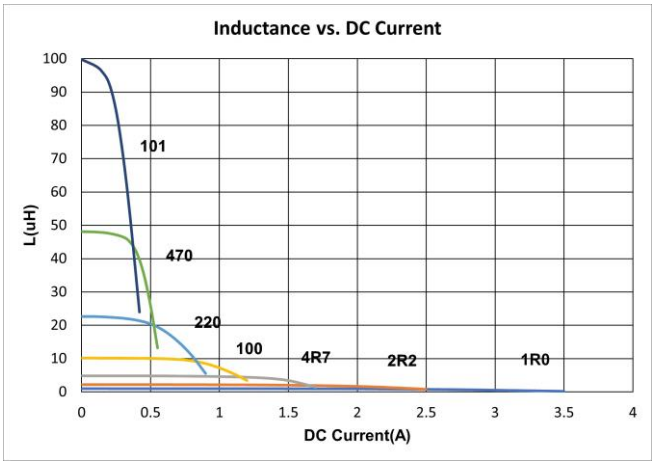

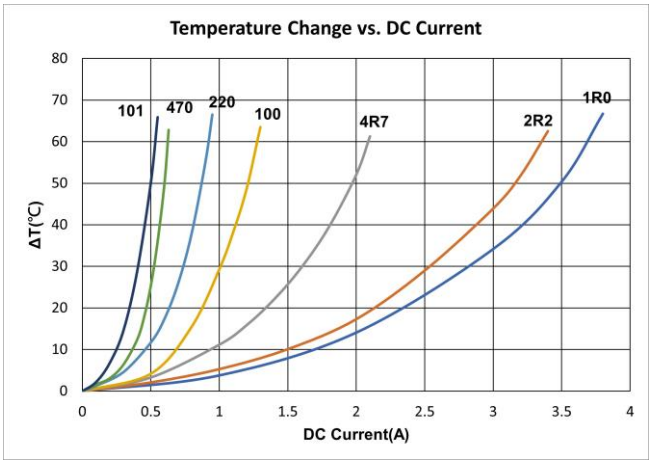

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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040123R3□00	3.3	20, 30	1	0.072	1.52(1.36)	2.10(1.89)	3R3
BWVF00404012100□00	10	20, 30	1	0.190	0.90(0.81)	1.20(1.08)	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

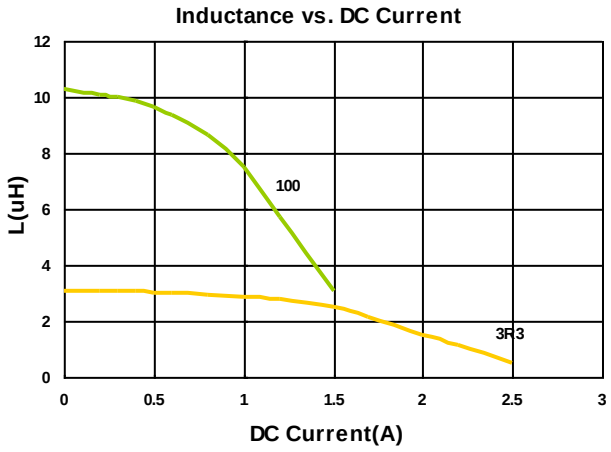
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

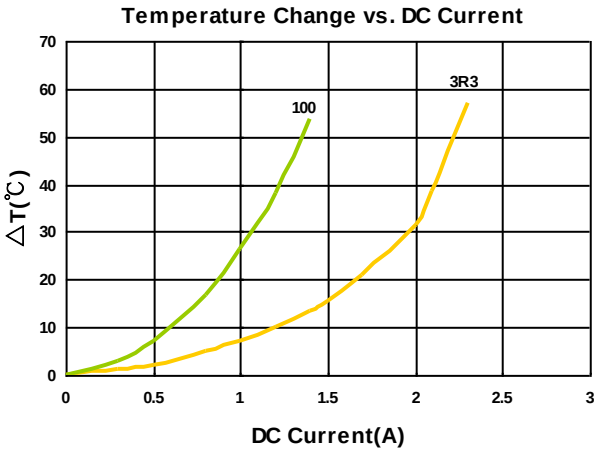
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF00404015R47□00	0.47	20, 30	1	0.019	4.00(3.60)	4.20(3.78)	R47
BWVF004040151R5□00	1.5	20, 30	1	0.041	3.00(2.70)	3.2(2.88)	1R5
BWVF004040152R2□00	2.2	20, 30	1	0.054	2.30(2.07)	2.60(2.34)	2R2
BWVF004040154R7□00	4.7	20, 30	1	0.100	1.60(1.44)	1.80(1.62)	4R7
BWVF004040156R8□00	6.8	20, 30	1	0.138	1.40(1.26)	1.60(1.44)	6R8
BWVF00404015100□00	10	20, 30	1	0.200	1.00(0.90)	1.20(1.08)	100
BWVF00404015150□00	15	20, 30	1	0.300	0.92(0.82)	1.05(0.94)	150
BWVF00404015220□00	22	20, 30	1	0.400	0.72(0.64)	0.85(0.76)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

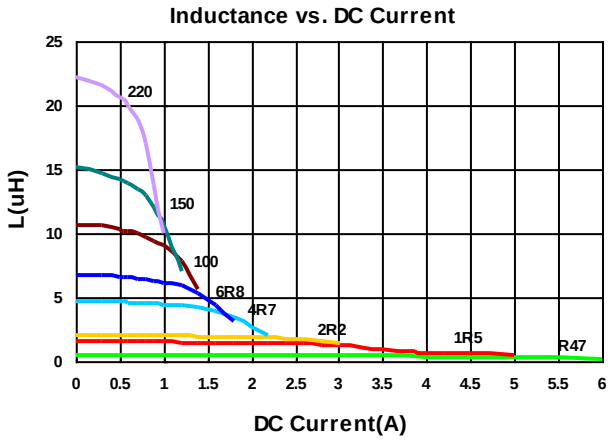
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

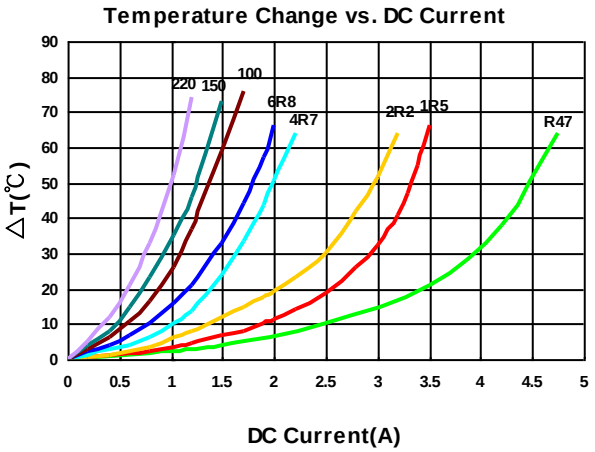
  L：HP4285A+HP42841A, 1MHz 200mV

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040181R0□00	1.0	20, 30	100	0.0265	4.2(3.78)	3.8(3.42)	1R0
BWVF004040181R5□00	1.5	20, 30	100	0.0370	3.5(3.15)	3.2(2.88)	1R5
BWVF004040182R2□00	2.2	20, 30	100	0.0470	3.0(2.70)	2.7(2.43)	2R2
BWVF004040183R3□00	3.3	20, 30	100	0.0625	2.3(2.07)	2.1(1.89)	3R3
BWVF00404018220□00	22	20, 30	100	0.335	0.90(0.81)	0.88(0.79)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

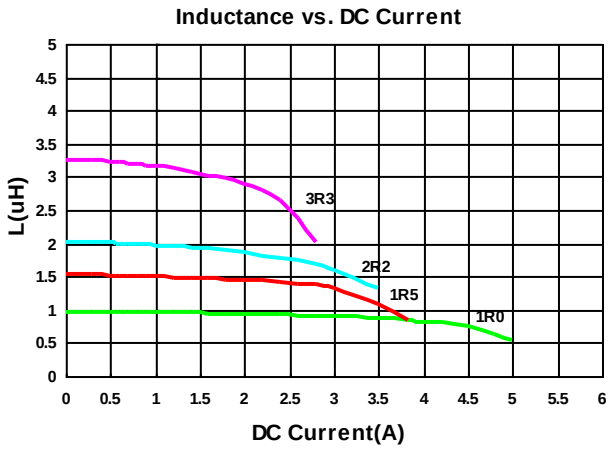
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

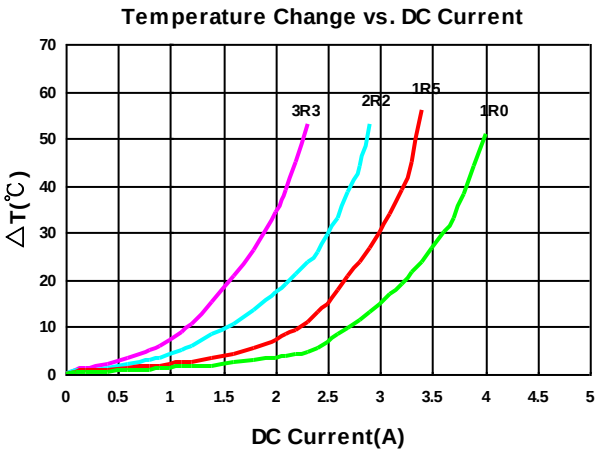
  L：HP4285A+ HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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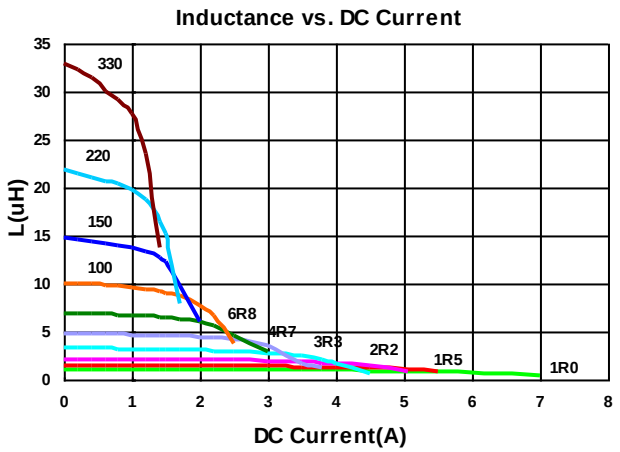
Electrical Characteristics

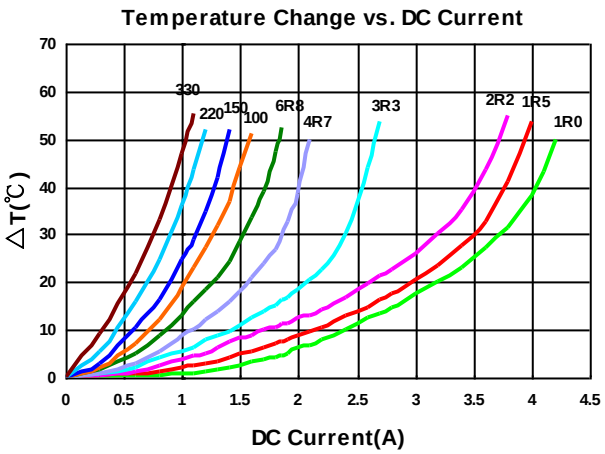
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF004040261R0□00	1.0	20, 30	100	0.030	5.00(4.50)	4.00(3.60)	1R0
BWVF004040261R5□00	1.5	20, 30	100	0.035	4.20(3.78)	3.70(3.33)	1R5
BWVF004040262R2□00	2.2	20, 30	100	0.045	3.80(3.42)	3.50(3.15)	2R2
BWVF004040263R3□00	3.3	20, 30	100	0.067	3.00(2.70)	2.50(2.25)	3R3
BWVF004040264R7□00	4.7	20, 30	100	0.092	2.60(2.34)	2.00(1.80)	4R7
BWVF004040265R6□00	5.6	20, 30	100	0.110	2.30(2.07)	1.90(1.71)	5R6
BWVF004040266R8□00	6.8	20, 30	100	0.130	2.00(1.80)	1.70(1.53)	6R8
BWVF00404026100□00	10	20, 30	100	0.188	1.90(1.71)	1.40(1.26)	100
BWVF00404026150□00	15	20, 30	100	0.240	1.45(1.30)	1.20(1.08)	150
BWVF00404026220□00	22	20, 30	100	0.330	1.22(1.09)	1.00(0.90)	220
BWVF00404026330□00	33	20, 30	100	0.480	1.00(0.90)	0.82(0.73)	330
BWVF00404026470□00	47	20, 30	100	0.735	0.88(0.79)	0.64(0.57)	470
BWVF00404026101□00	100	20, 30	100	1.380	0.58(0.52)	0.50(0.45)	101
BWVF00404026331□00	330	20, 30	100	4.600	0.31(0.27)	0.25(0.22)	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF005050201R0□00	1.0	20, 30	100	0.018	6.0(5.40)	4.1(3.69)	1R0
BWVF005050201R5□00	1.5	20, 30	100	0.023	4.9(4.41)	3.5(3.15)	1R5
BWVF005050201R8□00	1.8	20, 30	100	0.026	4.1(3.60)	3.4(3.00)	1R8
BWVF005050202R2□00	2.2	20, 30	100	0.030	4.0(3.60)	3.3(2.97)	2R2
BWVF005050203R6□00	3.6	20, 30	100	0.050	3.1(2.70)	2.7(2.40)	3R6
BWVF005050203R9□00	3.9	20, 30	100	0.053	2.9(2.61)	2.6(2.34)	3R9
BWVF005050204R7□00	4.7	20, 30	100	0.060	2.7(2.43)	2.2(1.98)	4R7
BWVF005050206R8□00	6.8	20, 30	100	0.093	2.2(1.98)	1.8(1.62)	6R8
BWVF00505020100□00	10	20, 30	100	0.125	1.8(1.62)	1.6(1.44)	100
BWVF00505020150□00	15	20, 30	100	0.195	1.4(1.26)	1.2(1.08)	150
BWVF00505020220□00	22	20, 30	100	0.265	1.2(1.08)	1.0(0.90)	220

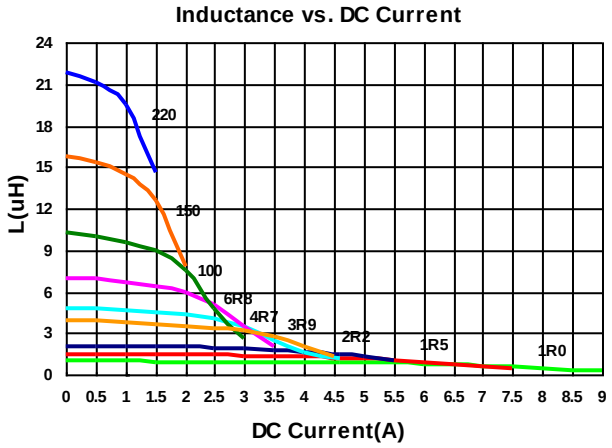
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

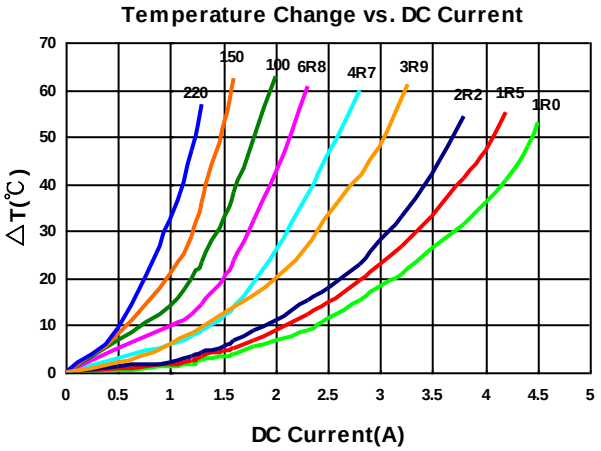
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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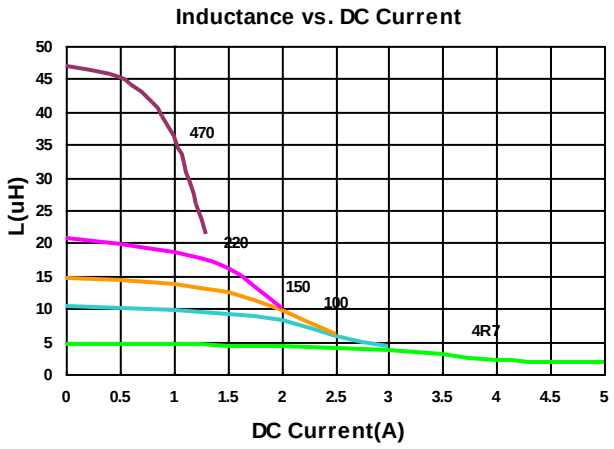
Electrical Characteristics

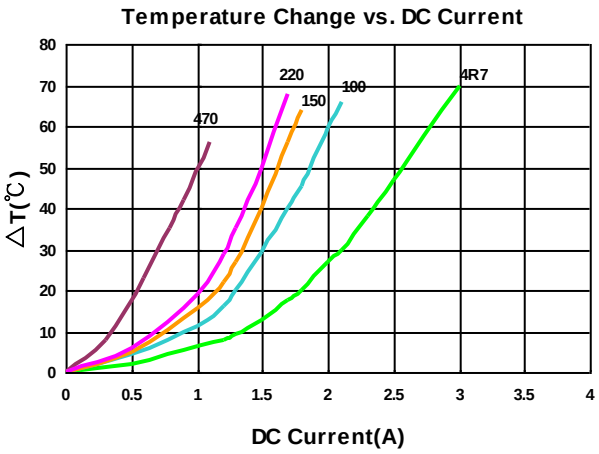
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF006060204R7□00	4.7	20, 30	100	0.058	3.0(2.70)	2.3(2.07)	4R7
BWVF00606020100□00	10	20, 30	100	0.130	2.1(1.89)	1.6(1.44)	100
BWVF00606020150□00	15	20, 30	100	0.195	1.6(1.44)	1.3(1.17)	150
BWVF00606020220□00	22	20, 30	100	0.260	1.3(1.17)	1.1(0.99)	220
BWVF00606020470□00	47	20, 30	100	0.510	0.9(0.80)	0.8(0.72)	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF006060281R0□00	1.0	20, 30	100	0.012	7.9(7.11)	6.3(5.67)	1R0
BWVF006060281R5□00	1.5	20, 30	100	0.015	7.0(6.30)	5.5(4.95)	1R5
BWVF006060282R2□00	2.2	20, 30	100	0.020	6.0(5.40)	5.0(4.50)	2R2
BWVF006060284R7□00	4.7	20, 30	100	0.036	4.0(3.60)	3.4(3.06)	4R7
BWVF006060286R8□00	6.8	20, 30	100	0.048	3.2(2.88)	3.0(2.70)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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- Measure Equipment：
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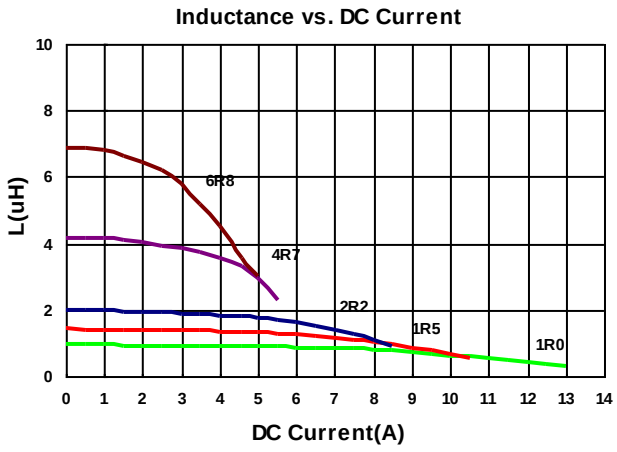
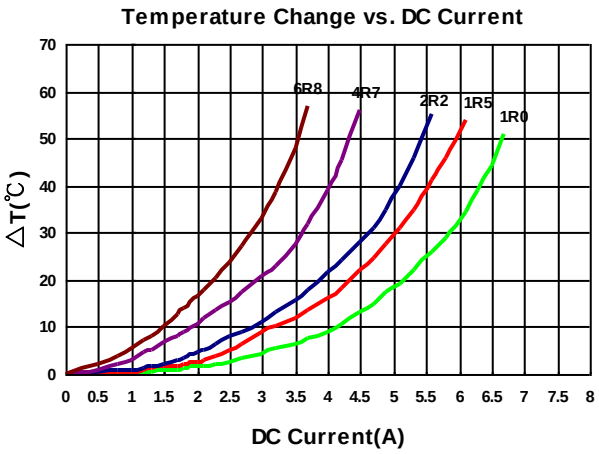
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVF008080404R7□00	4.7	20, 30	100	0.020	6.8(6.12)	5.5(4.95)	4R7
BWVF00808040100□00	10	20, 30	100	0.038	5.0(4.50)	3.8(3.42)	100
BWVF00808040150□00	15	20, 30	100	0.057	4.0(3.60)	3.2(2.88)	150
BWVF00808040220□00	22	20, 30	100	0.082	3.4(3.06)	2.7(2.43)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
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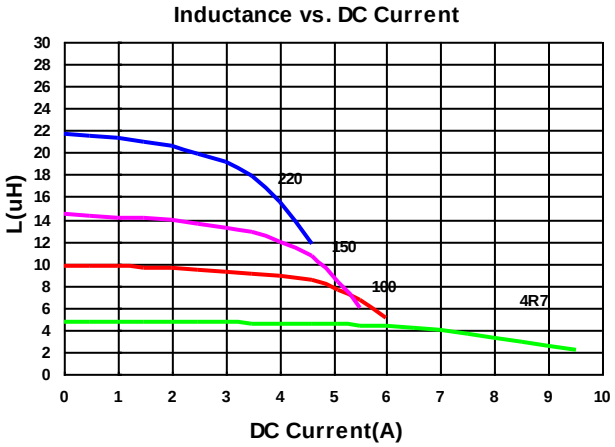
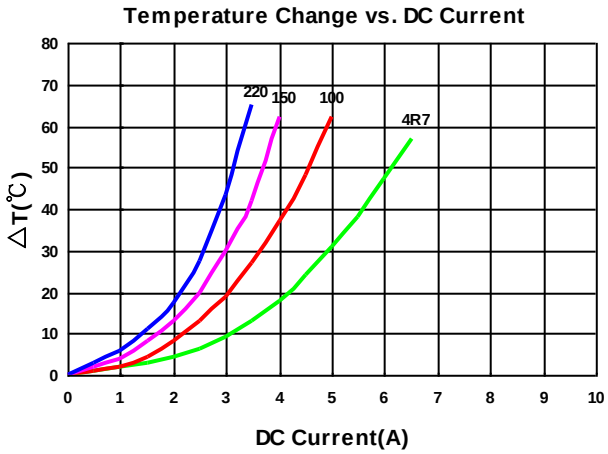
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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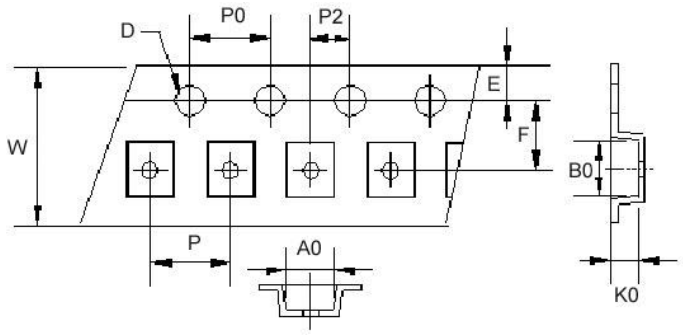
Packaging Specifications

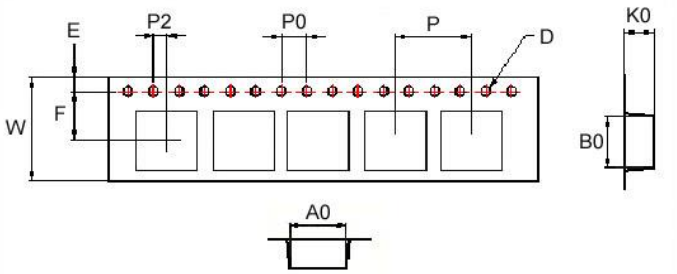
Tape Dimensions

Figure 1



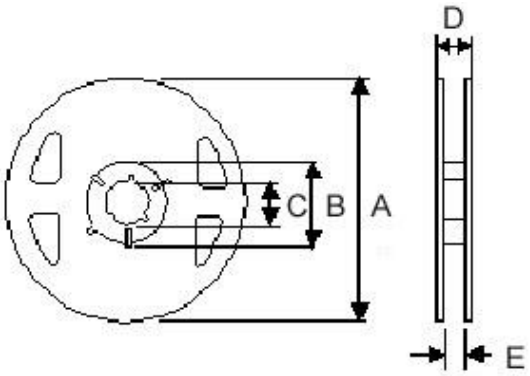
Tape Dimensions

Figure 2



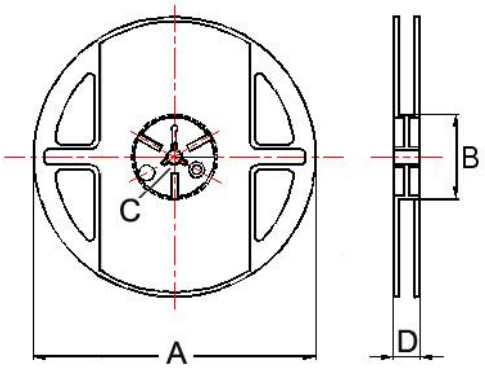
Reel Dimensions

Figure 1



Reel Dimensions

Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVF00201612	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00252010	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00303015	1	3.15	3.15	1.60	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVF00404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVF00404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVF00404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
BWVF00404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
BWVF00505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVF00606020	2	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVF00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1500
BWVF00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1000

BWVT Series

BWVT series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

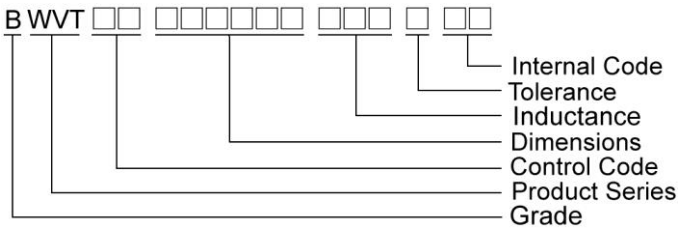
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

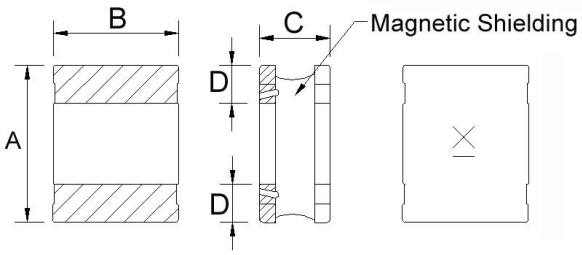
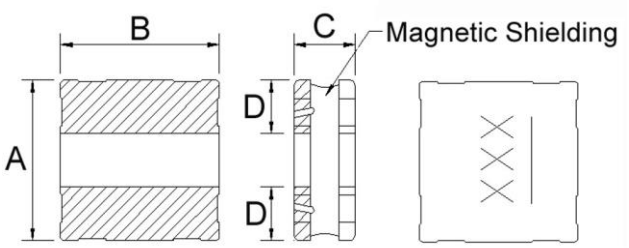


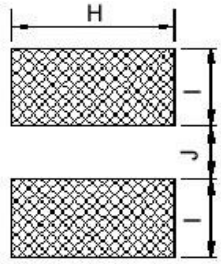
Figure 2



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVT00201610	1	2.0±0.25	1.6±0.25	1.00Max	0.6	1.8	0.80	0.8
BWVT00252010	1	2.5±0.25	2.0±0.25	1.02 Max	0.8	2.2	0.85	0.8
BWVT00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8
BWVT00303010	2	3.0±0.20	3.0±0.20	1.02 Max	1.0	3.2	1.1	1.0
BWVT00303012	2	3.0±0.20	3.0±0.20	1.20 Max	1.0	3.2	1.1	1.0
BWVT00404012	2	4.0±0.20	4.0±0.20	1.2±0.1	1.5	4.2	1.5	1.2

Recommended Pattern



Shape and Dimensions

Figure 3

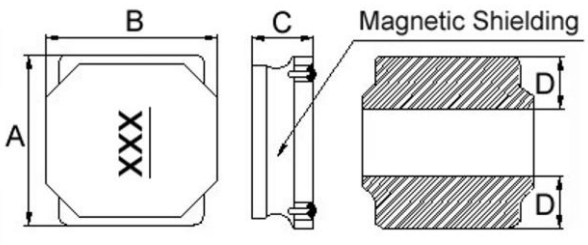
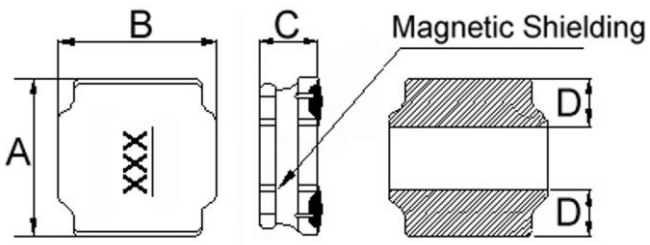


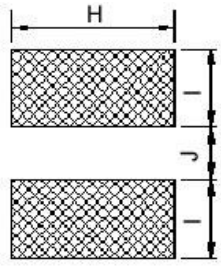
Figure 4



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVT00404015	3	4.0±0.25	4.0±0.25	1.5±0.2	1.3	3.7	1.5	1.2
BWVT00404026	3	4.0±0.20	4.0±0.20	2.6±0.2	1.4	3.7	1.6	1.2
BWVT00505020	4	5.0±0.2	5.0±0.2	2.0±0.2	1.8±0.3	4.2	1.6	2.0
BWVT00606020	4	6.0±0.2	6.0±0.2	2.0±0.2	1.7±0.3	5.7	1.7	2.8
BWVT00808040	4	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.30}$	2.3±0.3	7.5	2.5	3.4

Recommended Pattern



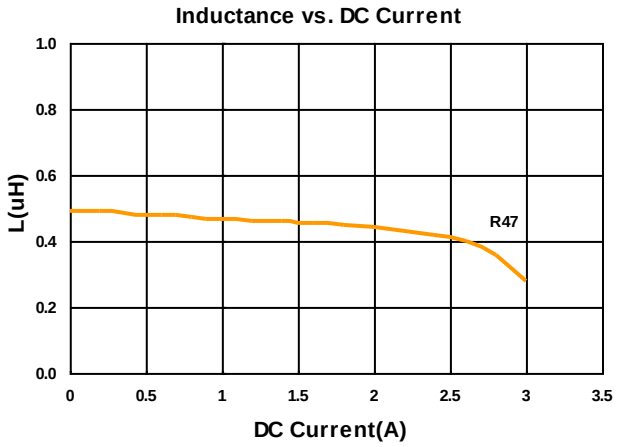
Electrical Characteristics

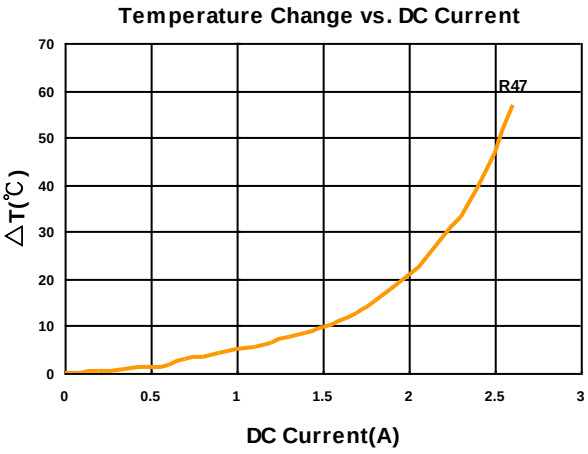
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (mΩ) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00201610R47□00	0.47	20, 30	1	72	2.4(2.16)	2.4(2.16)	A

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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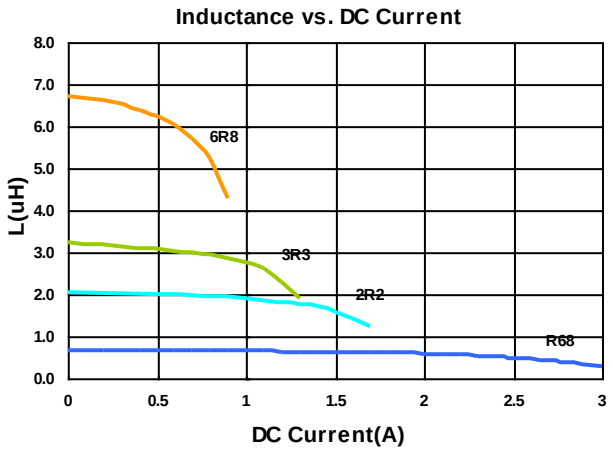
Electrical Characteristics

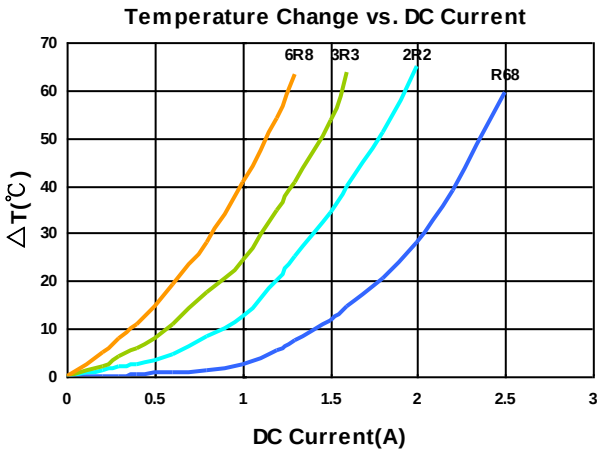
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00252010R68□00	0.68	20, 30	1	0.050	2.40(2.160)	2.20(1.980)	K
BWVT002520102R2□00	2.2	20, 30	1	0.135	1.42(1.270)	1.55(1.390)	D
BWVT002520103R3□00	3.3	20, 30	1	0.220	1.12(1.000)	1.20(1.080)	E
BWVT002520106R8□00	6.8	20, 30	1	0.435	0.78(0.700)	0.84(0.750)	G

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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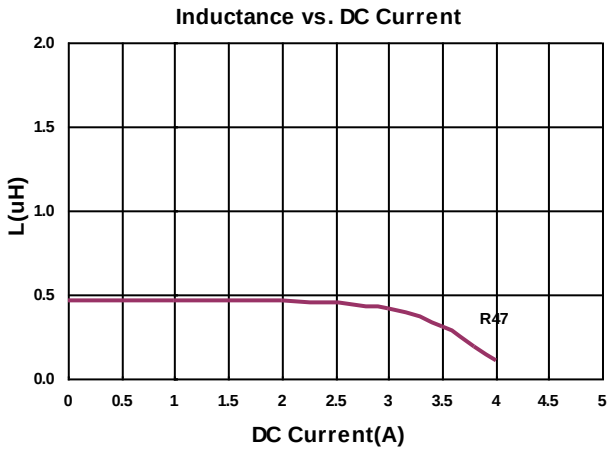
Electrical Characteristics

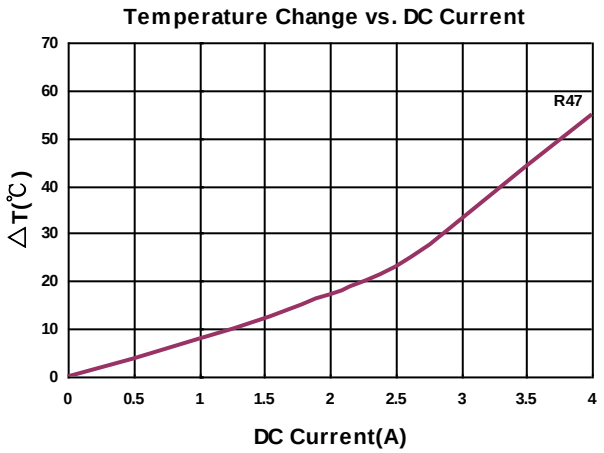
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00252012R47□00	0.47	20, 30	1	0.027	3.70(3.330)	3.10(2.790)	A

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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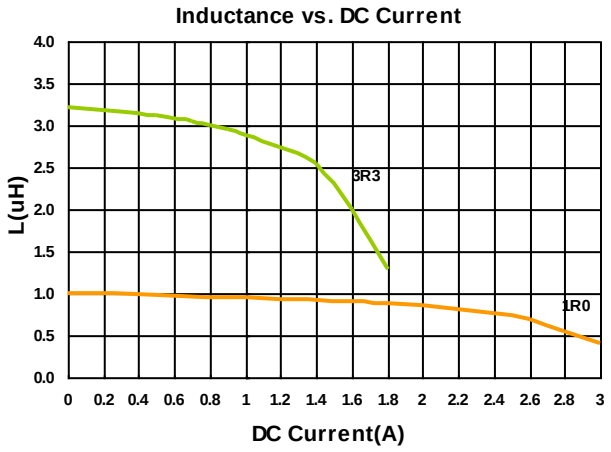
Electrical Characteristics

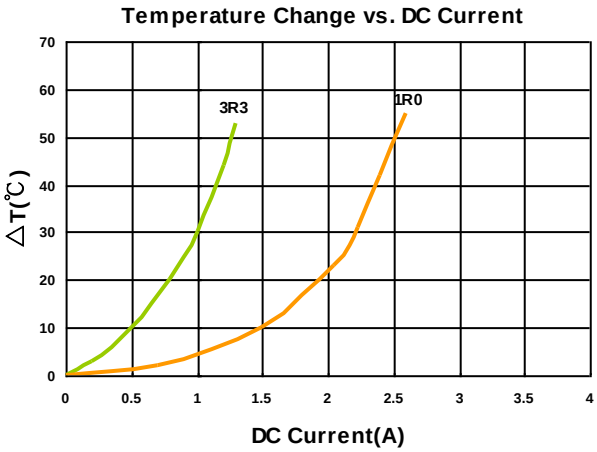
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT003030101R0□00	1.0	20, 30	1	0.063	2.4(2.16)	2.3(2.07)	1R0
BWVT003030103R3□00	3.3	20, 30	1	0.165	1.2(1.08)	1.1(0.99)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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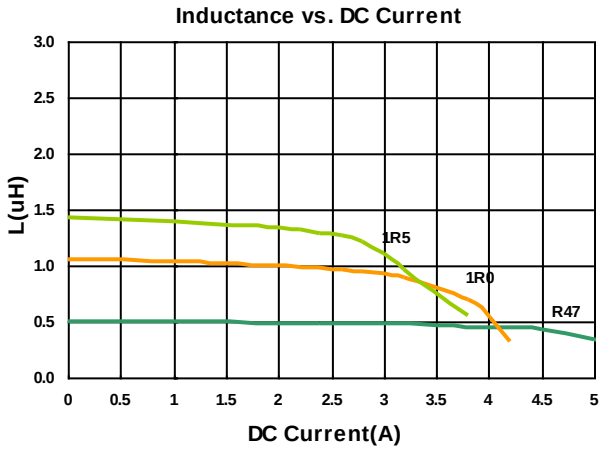
Electrical Characteristics

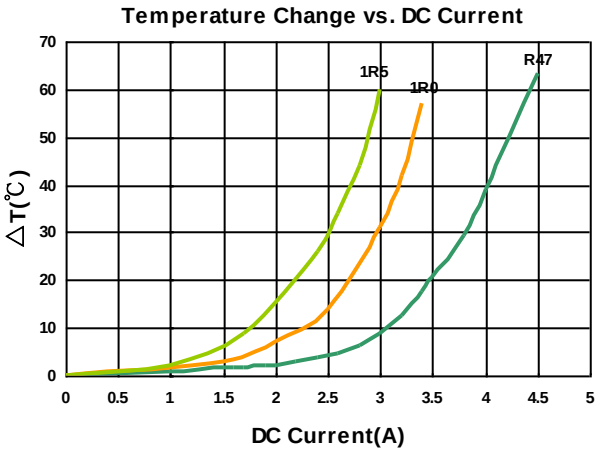
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00303012R47□00	0.47	20, 30	1	0.032	4.3(3.87)	4.0(3.60)	R47
BWVT003030121R0□00	1.0	20, 30	1	0.060	3.1(2.79)	3.0(2.70)	1R0
BWVT003030121R5□00	1.5	20, 30	1	0.072	2.7(2.43)	2.6(2.34)	1R5

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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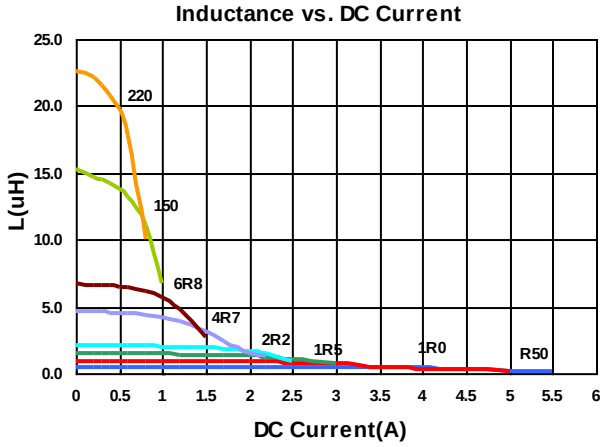
Electrical Characteristics

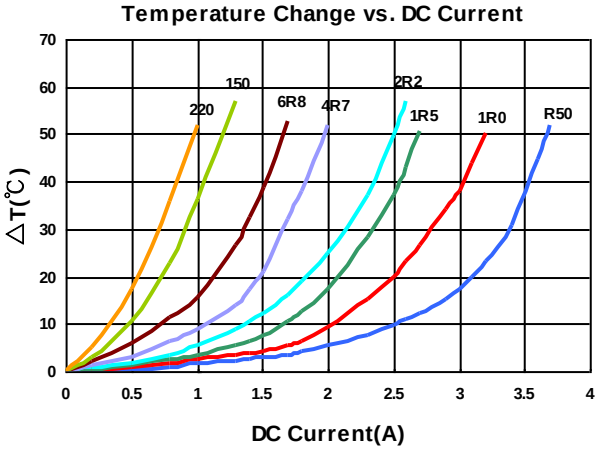
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00404012R50□00	0.5	20, 30	1	0.030	3.90(3.51)	3.50(3.15)	R50
BWVT004040121R0□00	1.0	20, 30	1	0.040	2.90(2.60)	3.00(2.70)	1R0
BWVT004040121R5□00	1.5	20, 30	1	0.051	2.30(2.07)	2.50(2.25)	1R5
BWVT004040122R2□00	2.2	20, 30	1	0.060	1.90(1.71)	2.30(2.07)	2R2
BWVT004040124R7□00	4.7	20, 30	1	0.094	1.32(1.18)	1.80(1.62)	4R7
BWVT004040126R8□00	6.8	20, 30	1	0.135	1.08(0.97)	1.50(1.35)	6R8
BWVT00404012150□00	15	20, 30	1	0.260	0.78(0.70)	1.00(0.90)	150
BWVT00404012220□00	22	20, 30	1	0.390	0.62(0.55)	0.80(0.72)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

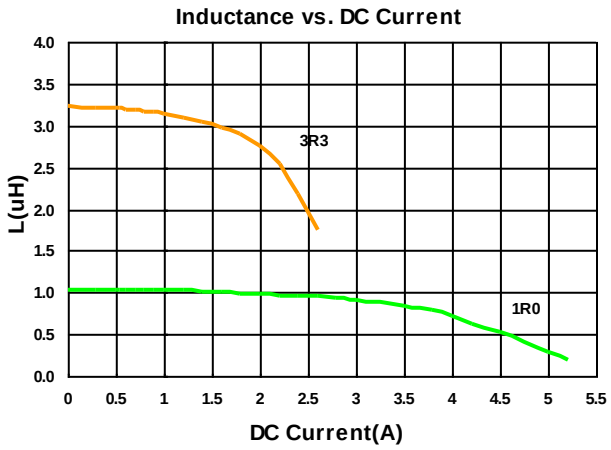
Electrical Characteristics

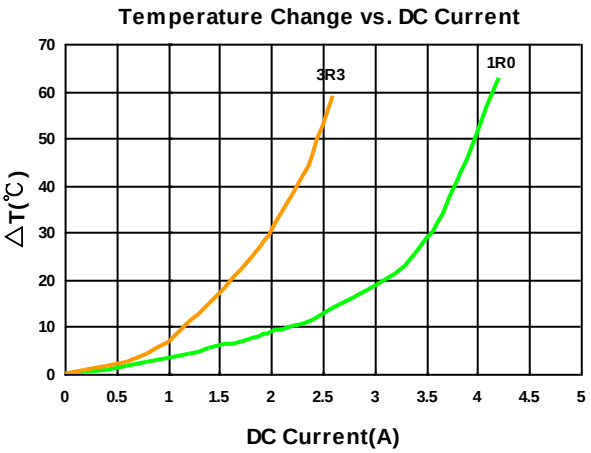
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT004040151R0□00	1.0	20, 30	1	0.034	3.60(3.24)	3.70(3.33)	1R0
BWVT004040153R3□00	3.3	20, 30	1	0.080	2.00(1.80)	2.20(1.98)	3R3

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
- RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

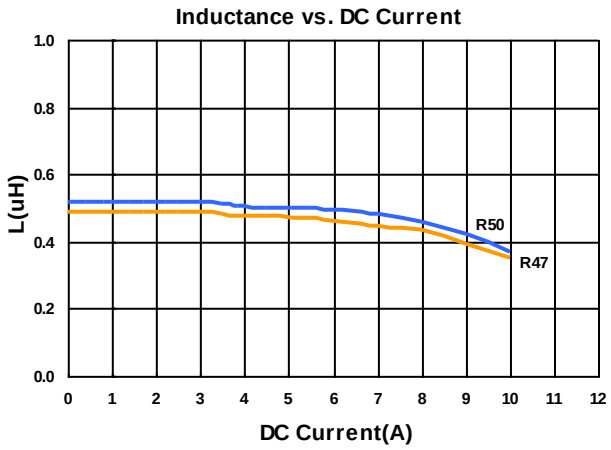
Electrical Characteristics

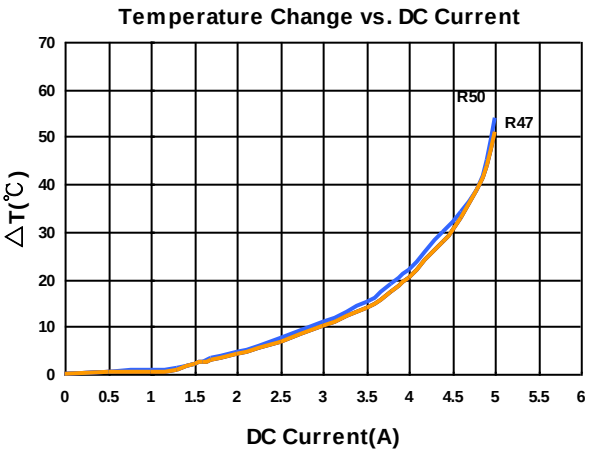
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00404026R47□00	0.47	20, 30	100	0.024	7.20(6.48)	4.80(4.32)	R47
BWVT00404026R50□00	0.50	20, 30	100	0.024	7.20(6.48)	4.80(4.32)	R50

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT00505020R47□00	0.47	20, 30	100	0.0135	8.0(7.2)	5.5(5.0)	R47
BWVT005050203R3□00	3.3	20, 30	100	0.050	3.4(3.06)	2.7(2.43)	3R3

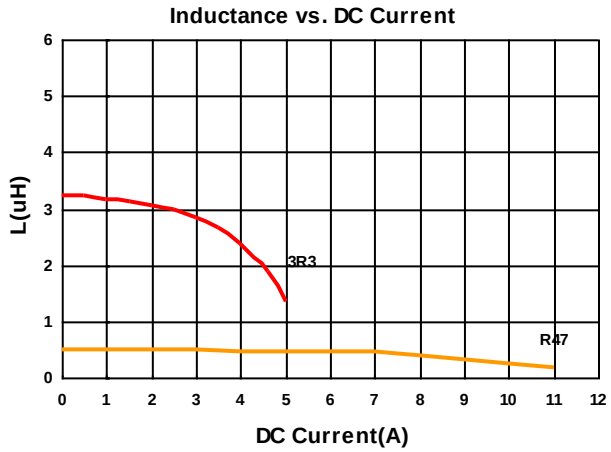
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

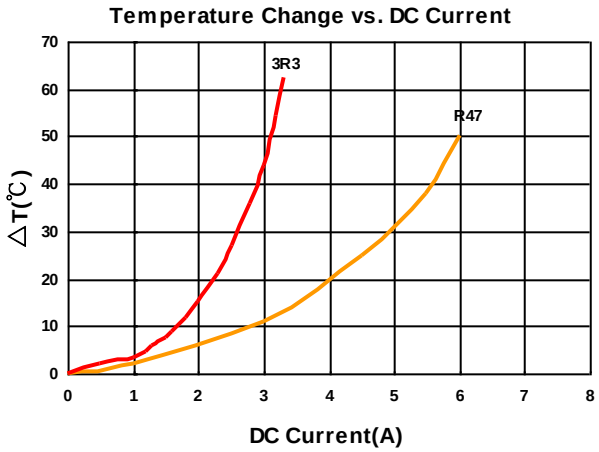
- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V

  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent

  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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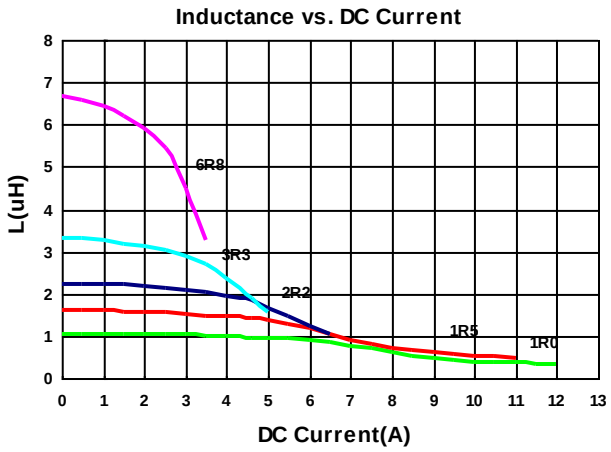
Electrical Characteristics

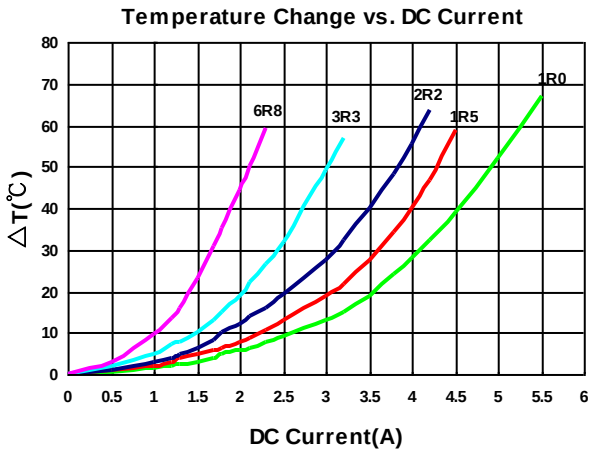
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT006060201R0□00	1.0	20, 30	100	0.019	6.4(5.76)	4.2(3.78)	1R0
BWVT006060201R5□00	1.5	20, 30	100	0.026	5.4(4.86)	3.7(3.33)	1R5
BWVT006060202R2□00	2.2	20, 30	100	0.034	4.5(4.05)	3.3(2.97)	2R2
BWVT006060203R3□00	3.3	20, 30	100	0.045	3.6(3.24)	2.8(2.52)	3R3
BWVT006060206R8□00	6.8	20, 30	100	0.085	2.6(2.34)	1.9(1.71)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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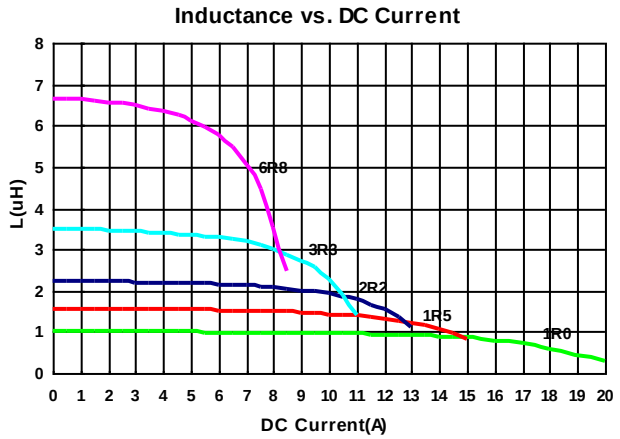
Electrical Characteristics

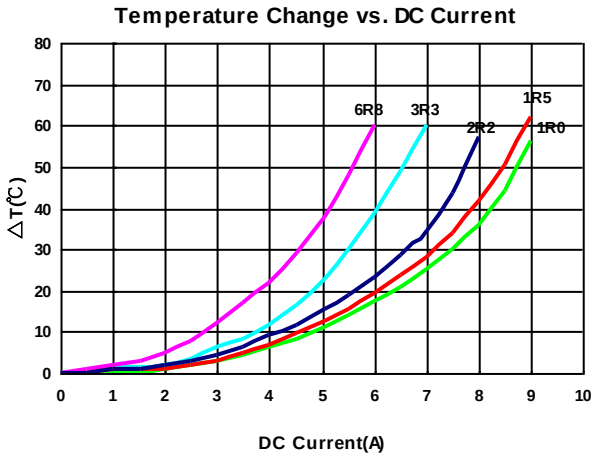
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVT008080401R0□00	1.0	20, 30	100	0.0075	13.5(12.15)	8.1(7.29)	1R0
BWVT008080401R5□00	1.5	20, 30	100	0.0097	10.5(9.45)	7.7(6.93)	1R5
BWVT008080402R2□00	2.2	20, 30	100	0.012	9.7(8.73)	7.2(6.48)	2R2
BWVT008080403R3□00	3.3	20, 30	100	0.047	8.0(7.20)	5.9(5.31)	3R3
BWVT008080406R8□00	6.8	20, 30	100	0.029	5.8(5.22)	4.9(4.41)	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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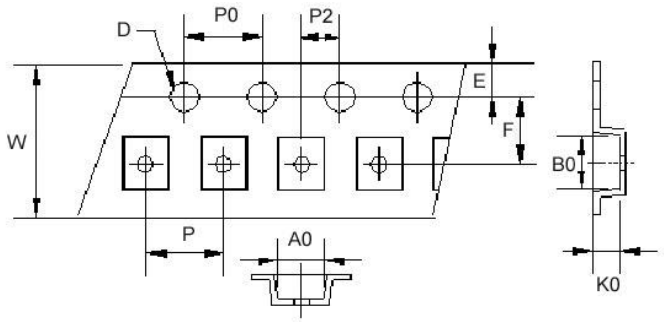
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

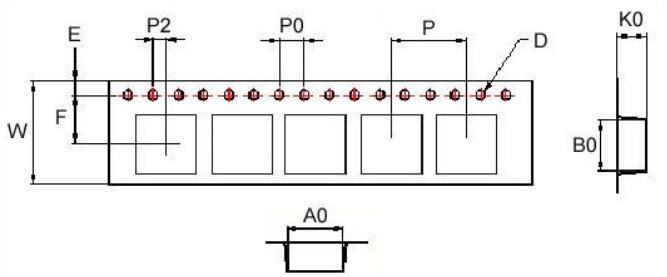
Tape Dimensions

Figure 1



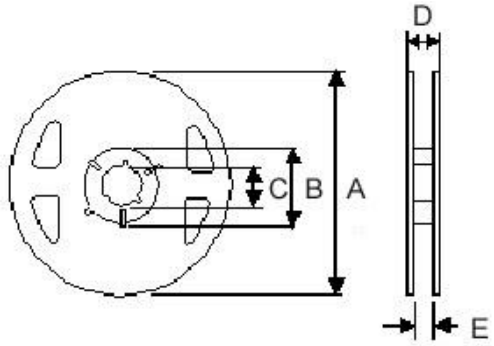
Tape Dimensions

Figure 2



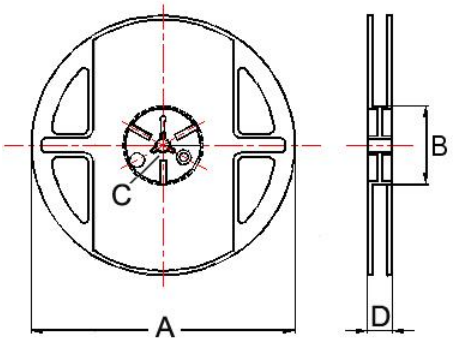
Reel Dimensions

Figure 1



Reel Dimensions

Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVT00201610	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00252010	1	2.40	2.70	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00303010	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVT00404012	2	4.25	4.25	1.30	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVT00404015	2	4.25	4.25	1.70	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
BWVT00404026	2	4.25	4.25	3.00	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
BWVT00505020	2	5.25	5.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVT00606020	2	6.25	6.25	2.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
BWVT00808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1000

BWVC Series

BWVC series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter application.

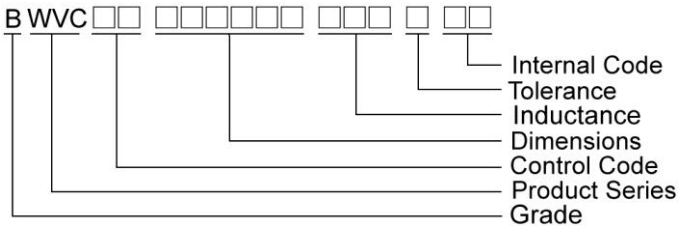
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

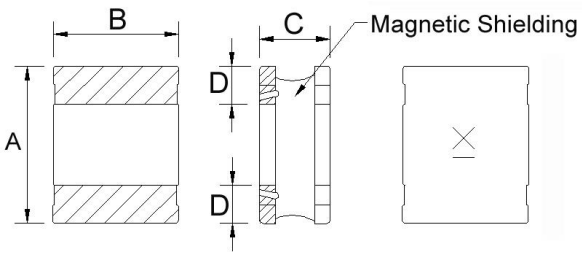
- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

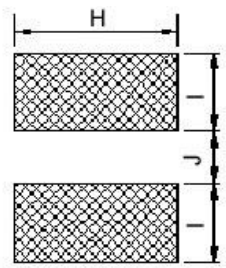


Shape and Dimensions

Figure 1



Recommended Pattern

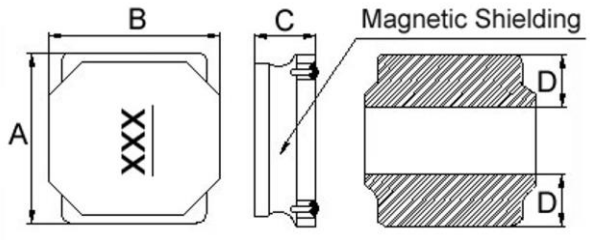


Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVC00201610	1	2.0±0.25	1.6±0.25	1.00 Max	0.6	1.8	0.80	0.8
BWVC00201612	1	2.0±0.25	1.6±0.25	1.2±0.05	0.6	1.8	0.80	0.8
BWVC00252012	1	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

Shape and Dimensions

Figure 2



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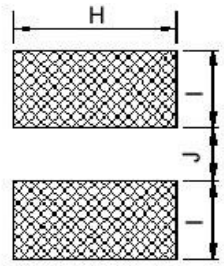
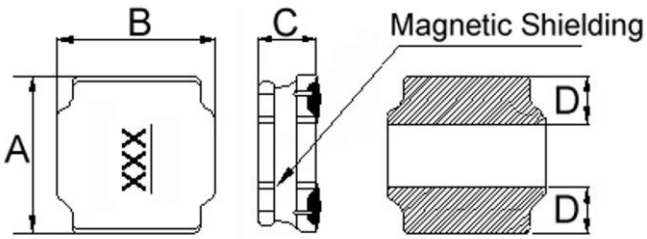


Dimensions in mm

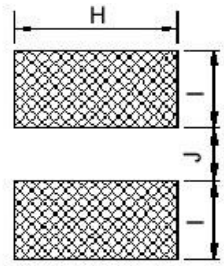
TYPE	FIG	A	B	C	D	H	I	J
BWVC00404018	2	4.0±0.20	4.0±0.20	1.9 Max	1.3	3.7	1.5	1.2

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVC00505040	3	5.0±0.20	5.0±0.20	4.0±0.2	1.5	4.2	1.6	2.0
BWVC00606028	3	6.0±0.20	6.0±0.20	2.8±0.2	1.9±0.3	5.7	1.8	2.6
BWVC00606045	3	6.0±0.20	6.0±0.20	$4.5^{+0.2}_{-0.30}$	1.8±0.3	5.7	2.0	2.4

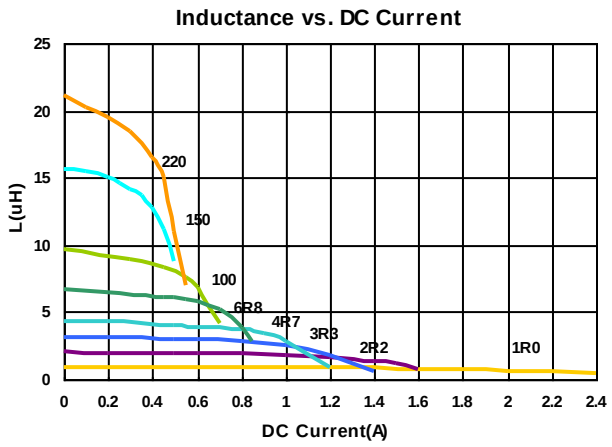
Electrical Characteristics

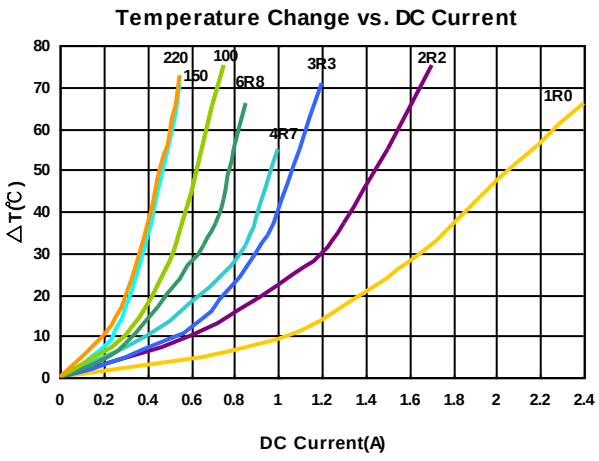
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00201610R24□00	0.24	20, 30	1	0.026	3.20(2.80)	3.00(2.70)	M
BWVC002016101R0□00	1.0	20, 30	1	0.095	1.86(1.67)	1.86(1.67)	B
BWVC002016101R5□00	1.5	20, 30	1	0.140	1.64(1.47)	1.65(1.48)	C
BWVC002016102R2□00	2.2	20, 30	1	0.190	1.30(1.17)	1.30(1.17)	D
BWVC002016103R3□00	3.3	20, 30	1	0.295	0.96(0.86)	0.98(0.88)	E
BWVC002016104R7□00	4.7	20, 30	1	0.360	0.84(0.75)	0.90(0.81)	F
BWVC002016106R8□00	6.8	20, 30	1	0.640	0.66(0.59)	0.70(0.63)	G
BWVC00201610100□00	10	20, 30	1	1.000	0.54(0.48)	0.56(0.50)	H
BWVC00201610150□00	15	20, 30	1	1.500	0.39(0.35)	0.42(0.37)	K
BWVC00201610180□00	18	20, 30	1	1.600	0.39(0.35)	0.41(0.36)	J
BWVC00201610220□00	22	20, 30	1	1.700	0.38(0.34)	0.40(0.36)	I

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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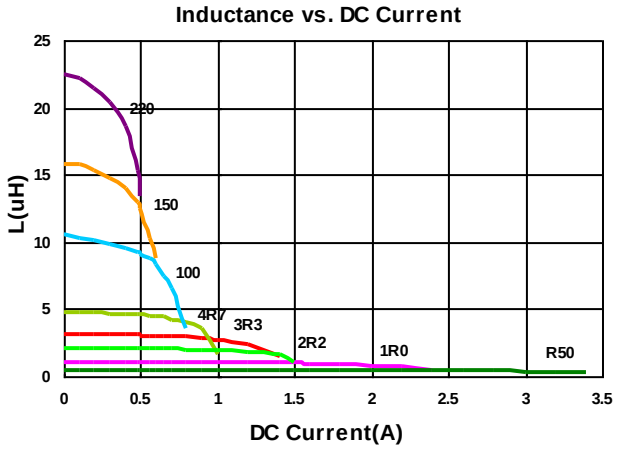
Electrical Characteristics

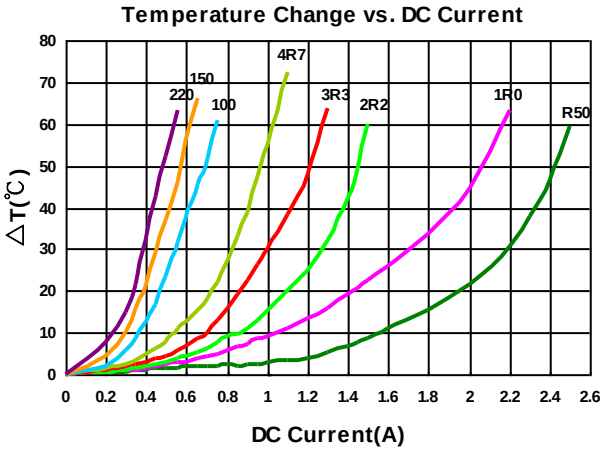
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00201612R50□00	0.5	20, 30	1	0.051	2.60(2.34)	2.30(2.07)	B
BWVC002016121R0□00	1.0	20, 30	1	0.083	1.90(1.71)	1.80(1.62)	C
BWVC002016122R2□00	2.2	20, 30	1	0.159	1.36(1.22)	1.34(1.20)	E
BWVC002016123R3□00	3.3	20, 30	1	0.220	1.10(0.99)	1.06(0.95)	F
BWVC002016124R7□00	4.7	20, 30	1	0.330	0.92(0.82)	0.90(0.81)	G
BWVC00201612100□00	10	20, 30	1	0.580	0.62(0.55)	0.58(0.52)	I
BWVC00201612150□00	15	20, 30	1	0.900	0.48(0.43)	0.45(0.40)	J
BWVC00201612220□00	22	20, 30	1	1.400	0.40(0.36)	0.40(0.36)	K

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

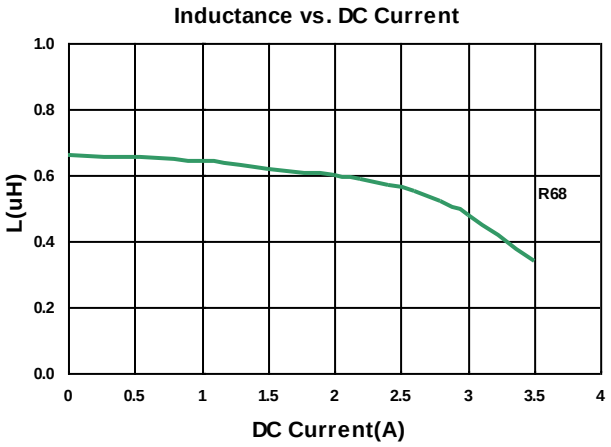
Electrical Characteristics

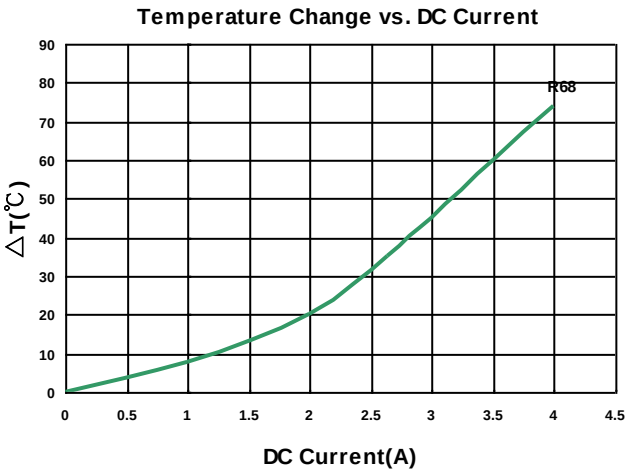
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC00252012-R68□00	0.68	20, 30	1	0.035	2.80(2.52)	2.60(2.34)	N

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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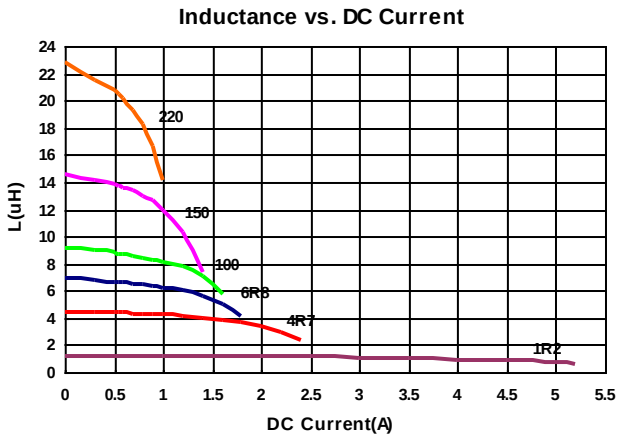
Electrical Characteristics

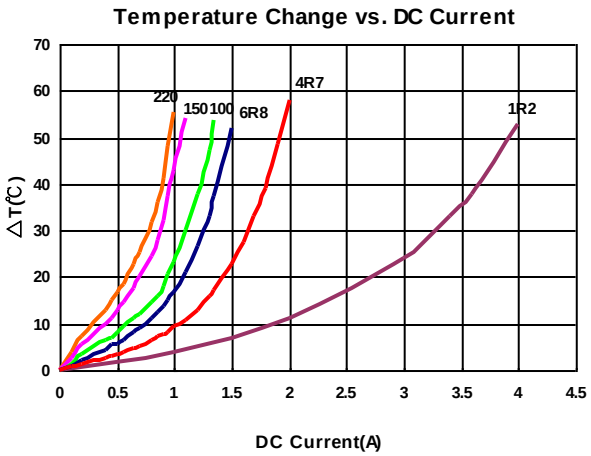
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC004040181R2□00	1.2	20, 30	100	0.027	3.70(3.30)	3.60(3.20)	1R2
BWVC004040184R7□00	4.7	20, 30	100	0.077	2.00(1.80)	1.80(1.62)	4R7
BWVC004040186R8□00	6.8	20, 30	100	0.105	1.50(1.35)	1.35(1.21)	6R8
BWVC00404018100□00	10	20, 30	100	0.160	1.40(1.26)	1.20(1.08)	100
BWVC00404018150□00	15	20, 30	100	0.245	1.05(0.94)	0.95(0.85)	150
BWVC00404018220□00	22	20, 30	100	0.335	0.90(0.81)	0.88(0.79)	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC005050401R0□00	1.0	20, 30	100	0.012	8.8(7.92)	5.9(5.31)	1R0
BWVC005050401R5□00	1.5	20,30	100	0.014	7.9(7.11)	5.4(4.86)	1R5
BWVC005050402R2□00	2.2	20, 30	100	0.020	6.8(6.12)	4.5(4.05)	2R2
BWVC005050402R7□00	2.7	20, 30	100	0.026	6.0(5.40)	4.2(3.70)	2R7
BWVC005050403R3□00	3.3	20, 30	100	0.026	5.3(4.77)	4.2(3.78)	3R3
BWVC005050404R7□00	4.7	20, 30	100	0.032	4.4(3.96)	3.2(2.88)	4R7
BWVC005050406R8□00	6.8	20, 30	100	0.050	3.8(3.42)	3.0(2.70)	6R8
BWVC005050408R2□00	8.2	20, 30	100	0.065	3.3(2.90)	2.4(2.10)	8R2
BWVC00505040100□00	10	20, 30	100	0.070	3.0(2.70)	2.3(2.07)	100
BWVC00505040150□00	15	20, 30	100	0.115	2.4(2.16)	1.8(1.62)	150
BWVC00505040220□00	22	20, 30	100	0.160	2.0(1.80)	1.6(1.44)	220
BWVC00505040151□00	150	20, 30	100	1.180	0.74(0.66)	0.58(0.52)	151
BWVC00505040181□00	180	20, 30	100	1.250	0.67(0.60)	0.54(0.48)	181
BWVC00505040221□00	220	20, 30	100	1.450	0.65(0.58)	0.50(0.45)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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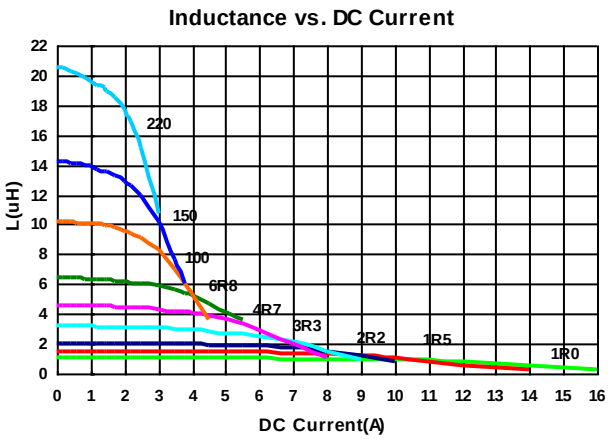
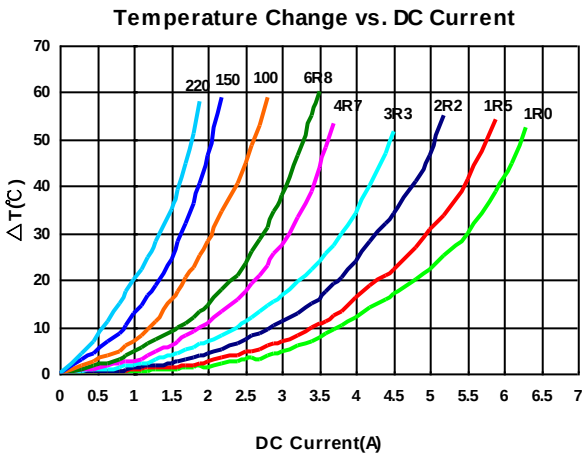
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：HP4285A+ HP42841A, 100kHz 1V
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC006060283R3□00	3.3	20, 30	100	0.027	4.5(4.05)	4.0(3.60)	3R3
BWVC00606028100□00	10	20, 30	100	0.065	2.6(2.34)	2.5(2.25)	100
BWVC00606028150□00	15	20, 30	100	0.093	2.1(1.89)	2.0(1.80)	150
BWVC00606028220□00	22	20, 30	100	0.135	1.7(1.53)	1.65(1.48)	220

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- Measure Equipment：
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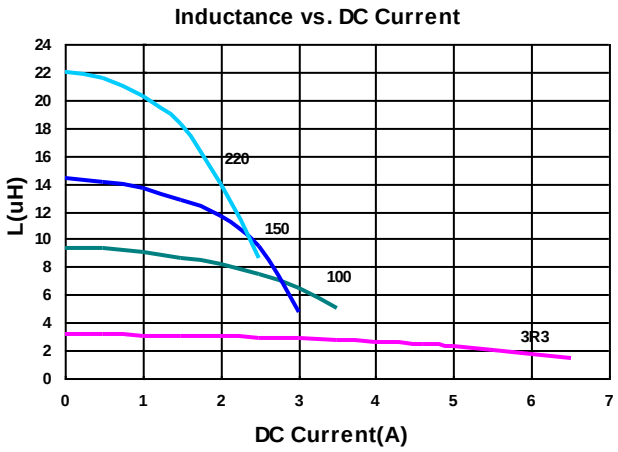
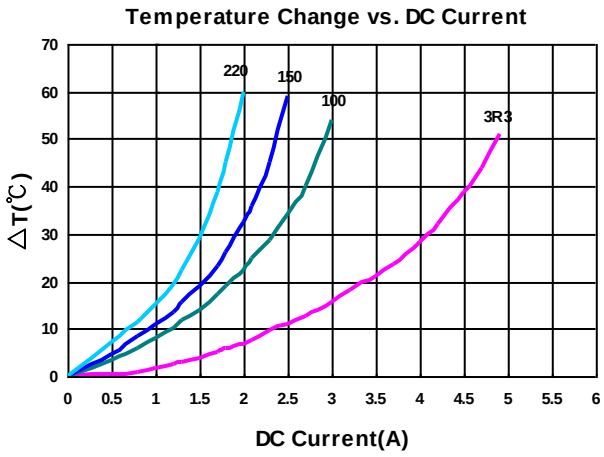
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) ±30%	Isat (A) Typ. (Max)	Irms (A) Typ. (Max)	Marking
BWVC006060451R0□00	1.0	20,30	100	0.010	13(11.7)	7.3(6.57)	1R0
BWVC006060451R5□00	1.5	20,30	100	0.012	12(10.8)	6.6(5.94)	1R5
BWVC006060452R2□00	2.2	20, 30	100	0.018	9.5(8.55)	5.2(4.68)	2R2
BWVC006060453R3□00	3.3	20, 30	100	0.022	7.8(7.02)	4.4(3.96)	3R3
BWVC006060454R7□00	4.7	20, 30	100	0.03	6.8(6.12)	4.0(3.60)	4R7
BWVC006060456R8□00	6.8	20, 30	100	0.042	5.7(5.13)	3.3(2.97)	6R8
BWVC00606045100□00	10	20, 30	100	0.06	4.6(4.14)	2.6(2.34)	100
BWVC00606045150□00	15	20, 30	100	0.09	3.8(3.42)	2.2(1.98)	150
BWVC00606045220□00	22	20, 30	100	0.13	3.3(2.97)	1.9(1.71)	220
BWVC00606045151□00	150	20, 30	100	0.97	0.95(0.85)	0.65(0.58)	151

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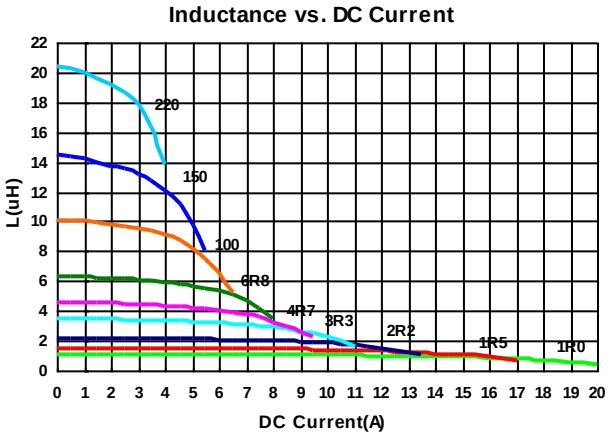
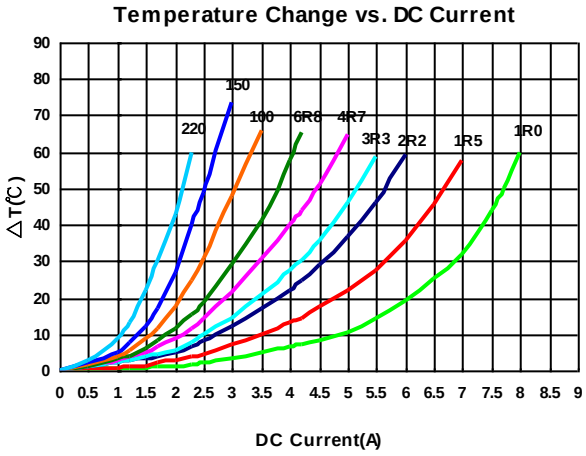
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions

Figure 1

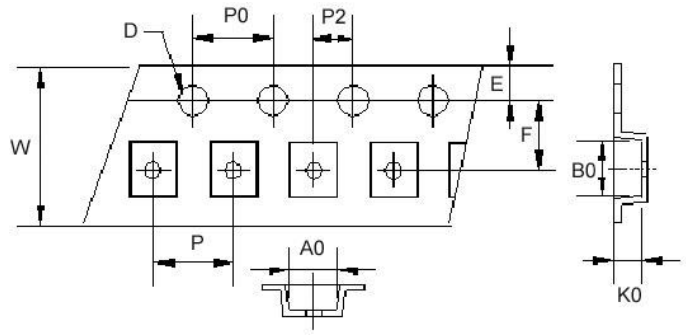
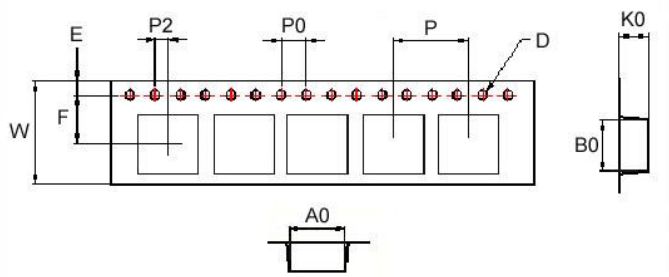


Figure 2



Reel Dimensions

Figure 1

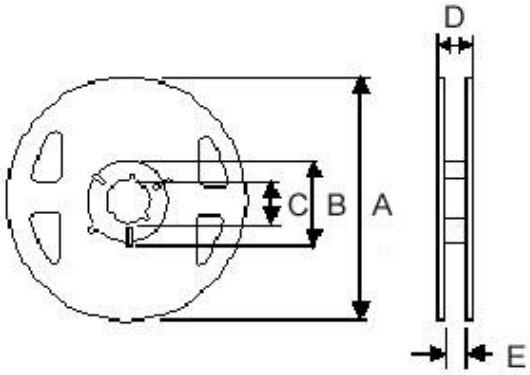
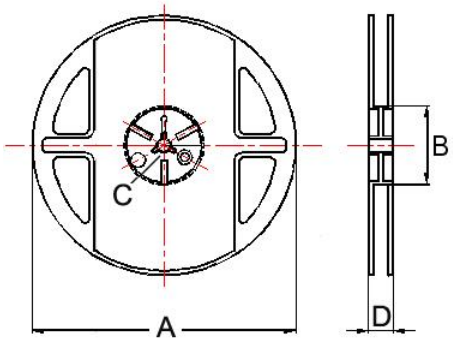


Figure 2



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVC00201610	1	1.90	2.20	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00201612	1	1.90	2.20	1.30	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00252012	1	2.40	2.70	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVC00404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
BWVC00505040	2	5.20	5.20	4.20	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1500
BWVC00606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16.0	-	1500
BWVC00606045	2	6.20	6.20	4.65	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	1000

BWVH Series

BWVH series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

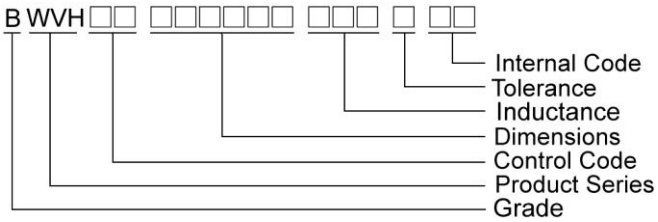
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Low profile, miniature package size and wide inductance range.
- Low DCR and high rated current.

Applications

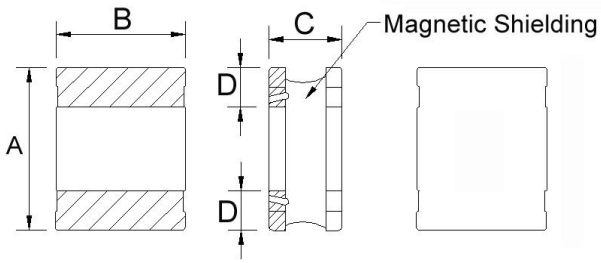
- Smart phone
- DSC
- Tablet PC and other portable devices
- DC/DC converters

Product Identification



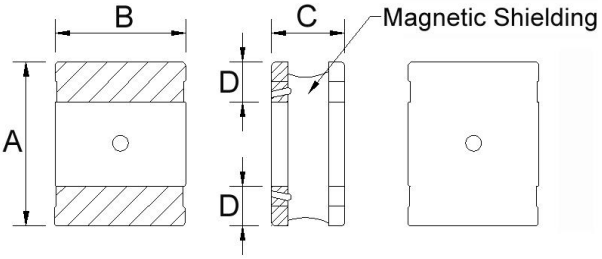
Shape and Dimensions

Figure 1

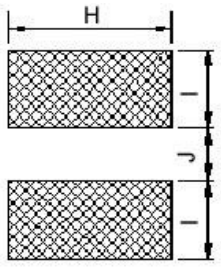


Recommended Pattern

Figure 2



Recommended Pattern

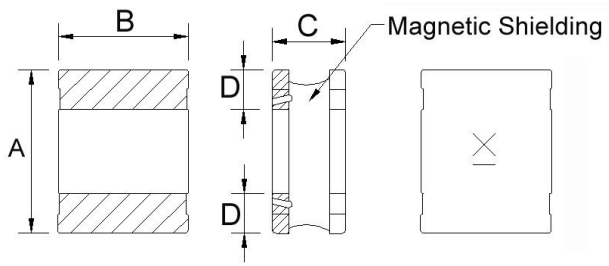


Dimensions in mm

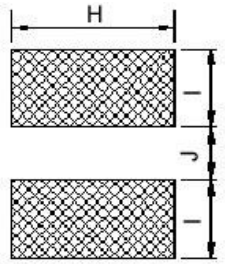
TYPE	FIG	A	B	C	D	H	I	J
BWVH00201610_H1	1	2.0±0.25	1.6±0.25	1.02 Max	0.6	1.8	0.8	0.8
BWVH00252010_H1	1	2.5±0.25	2.0±0.25	1.00 Max	0.8	2.2	0.85	0.8
BWVH00252012_H1	2	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

Shape and Dimensions

Figure 3



Recommended Pattern



Dimensions in mm

TYPE	FIG	A	B	C	D	H	I	J
BWVH00252012	3	2.5±0.25	2.0±0.25	1.2±0.05	0.8	2.2	0.85	0.8

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
BWVH00201610R24□H1	0.24	20, 30	1	0.048	3700(3300)	2500(2100)
BWVH00201610R33□H1	0.33	20, 30	1	0.048	3400(3000)	2500(2100)
BWVH00201610R47□H1	0.47	20, 30	1	0.072	2900(2600)	2100(1800)
BWVH00201610R56□H1	0.56	20, 30	1	0.072	2700(2400)	2100(1800)
BWVH00201610R68□H1	0.68	20, 30	1	0.092	2500(2200)	1800(1500)
BWVH002016101R0□H1	1.0	20, 30	1	0.110	2200(2000)	1500(1200)
BWVH002016102R2□H1	2.2	20, 30	1	0.205	1400(1200)	1150(970)
BWVH002016103R3□H1	3.3	20, 30	1	0.380	1050(940)	900(800)
BWVH002016104R7□H1	4.7	20, 30	1	0.520	900(800)	800(680)
BWVH00201610100□H1	10	20, 30	1	1.100	620(550)	450(380)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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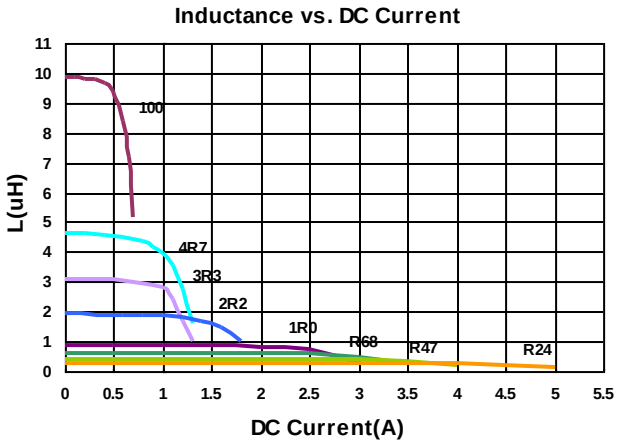
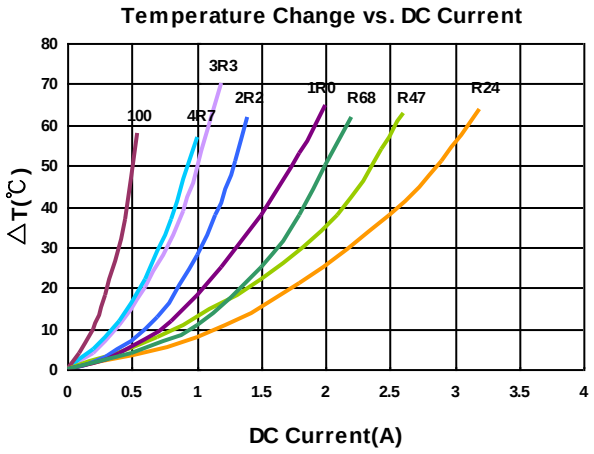
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)
BWVH00252010R24□H1	0.24	20, 30	1	0.030	4700(4200)	3600(3000)
BWVH00252010R47□H1	0.47	20, 30	1	0.043	3300(3000)	2700(2300)
BWVH00252010R68□H1	0.68	20, 30	1	0.062	2800(2500)	2300(1900)
BWVH002520101R0□H1	1.0	20, 30	1	0.080	2300(2100)	1900(1600)
BWVH002520102R2□H1	2.2	20, 30	1	0.135	1600(1400)	1400(1100)
BWVH002520104R7□H1	4.7	20, 30	1	0.330	1000(900)	850(720)
BWVH00252010100□H1	10	20, 30	1	0.670	720(640)	580(490)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
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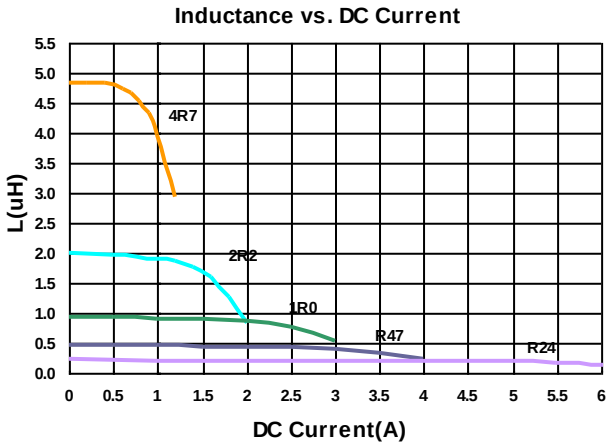
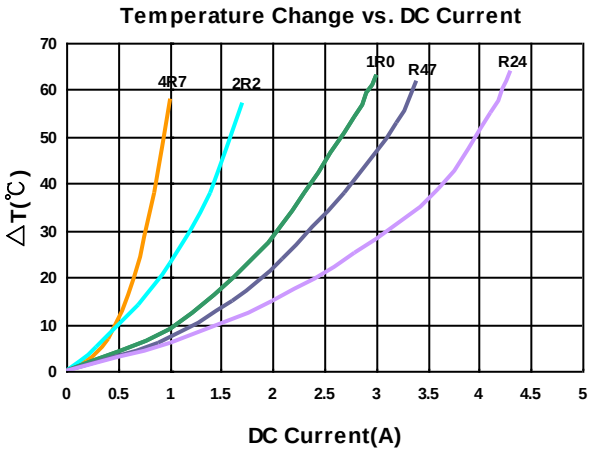
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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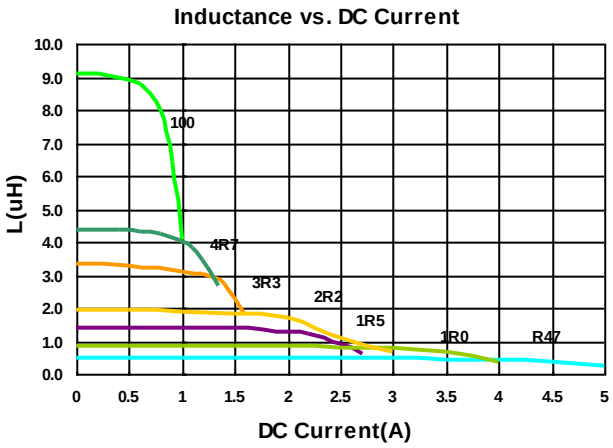
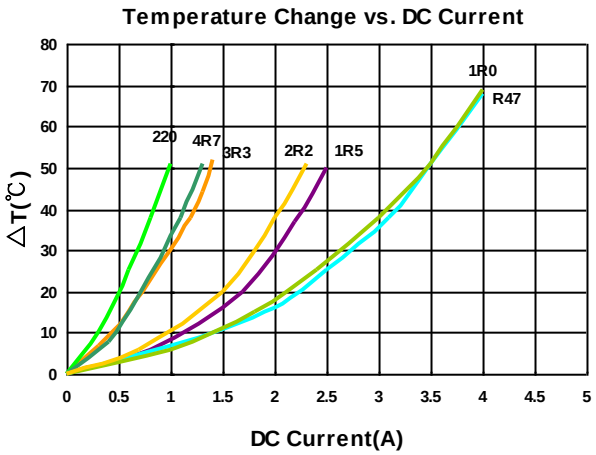
BWVH00252012R47□H1	0.47	20, 30	1	0.031	4100(3700)	3100(2600)
BWVH00252012R68□H1	0.68	20, 30	1	0.031	3100(2900)	3100(2600)
BWVH002520121R0□H1	1.0	20, 30	1	0.049	3200(3000)	3000(2500)
BWVH002520121R5□H1	1.5	20, 30	1	0.088	2300(2100)	2200(1800)
BWVH002520122R2□H1	2.2	20, 30	1	0.099	2200(2000)	2000(1700)
BWVH002520123R3□H1	3.3	20, 30	1	0.190	1400(1200)	1200(1000)
BWVH002520124R7□H1	4.7	20, 30	1	0.235	1300(1100)	1100(930)
BWVH00252012100□H1	10	20, 30	1	0.510	920(820)	800(680)

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

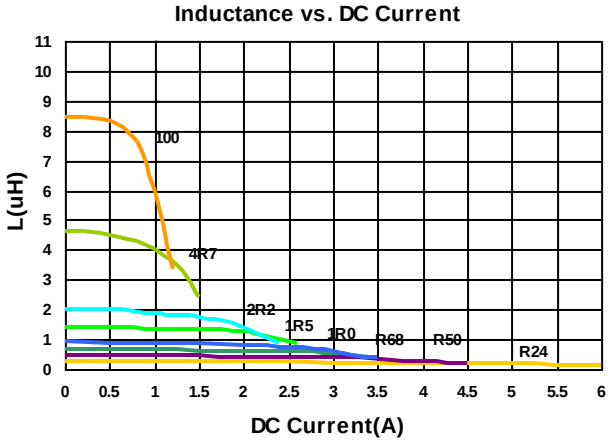
Electrical Characteristics

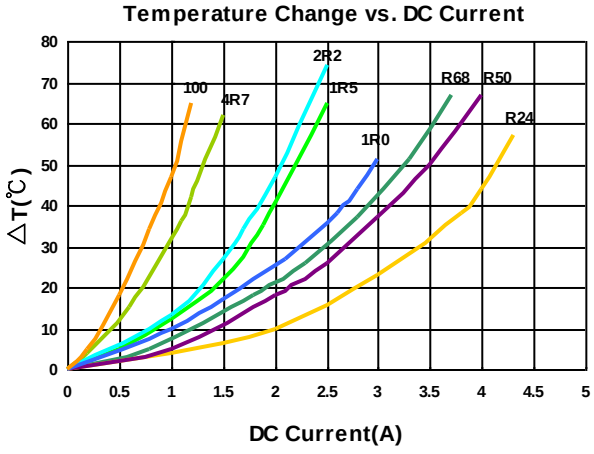
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±30%	Isat (mA) Typ. (Max)	Irms (mA) Typ. (Max)	Marking
BWVH00252012R24□00	0.24	20, 30	1	0.021	4700(4200)	3800(3200)	E
BWVH00252012R33□00	0.33	20, 30	1	0.027	4200(3700)	3000(2500)	G
BWVH00252012R47□00	0.47	20, 30	1	0.027	3600(3400)	3000(2500)	J
BWVH00252012R50□00	0.50	20, 30	1	0.027	3600(3400)	3000(2500)	D
BWVH00252012R68□00	0.68	20, 30	1	0.036	2900(2600)	2800(2300)	H
BWVH002520121R0□00	1.0	20, 30	1	0.037	2700(2450)	2600(2200)	A
BWVH002520121R5□00	1.5	20, 30	1	0.075	2200(1900)	1900(1600)	I
BWVH002520122R2□00	2.2	20, 30	1	0.080	1900(1800)	1800(1500)	B
BWVH002520124R7□00	4.7	20, 30	1	0.195	1200(1000)	1100(930)	C
BWVH00252012100□00	10	20, 30	1	0.400	900(800)	800(680)	F
BWVH00252012330□00	33	20, 30	1	1.550	430(380)	380(340)	L
BWVH00252012470□00	47	20, 30	1	1.700	390(350)	340(300)	K

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent HP4287A+Agilent HP16197A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4284A Material/Impedance Analyzer





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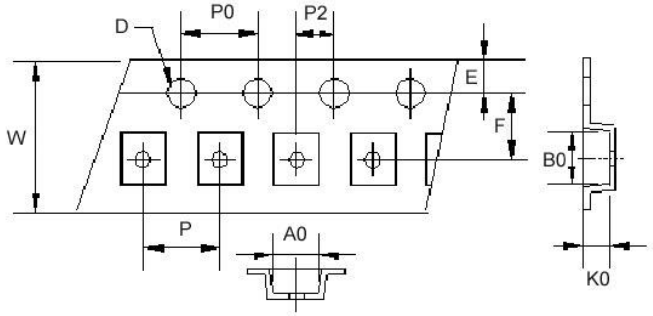
Pulse a YAGEO company

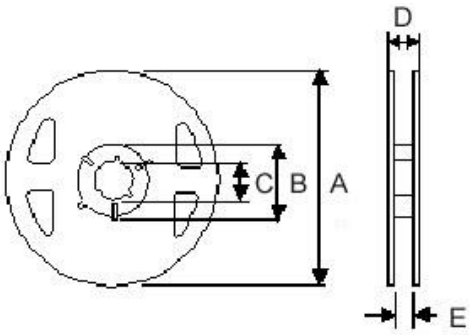
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions										Reel Dimensions					Quantity
	A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	PCS / Reel
BWVH00201610	1.9	2.2	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVH00252010	2.4	2.7	1.15	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000
BWVH00252012	2.4	2.7	1.35	1.55	1.75	3.5	8	4	4	2	180	60	13	14.4	8.4	2000

SMD Unshielded Power Inductors - BWVN Series

BWVN Series

BWVN series, an automatic assembly power inductor, is suitable for the portable DC-DC converter application.

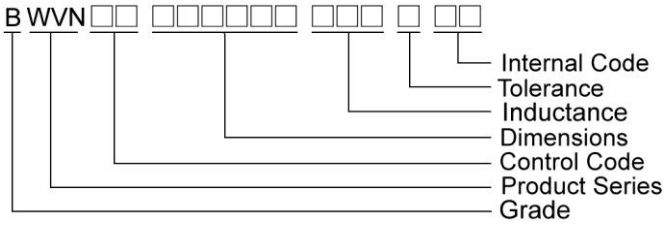
Features

- RoHS compliant
- Highly accurate dimensions can be mounted automatically
- Terminals are highly resistant to pull forces.
- Highly reliable in environments of sudden temperature change

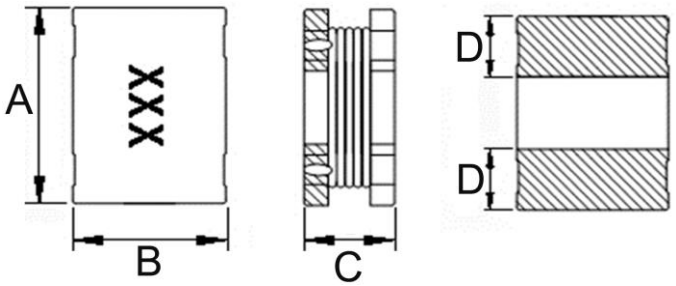
Applications

- Portable equipment such as, PDA,MP3,HDD, Mobil phone, DSC etc.
- Game Console.
- DC / DC converters.

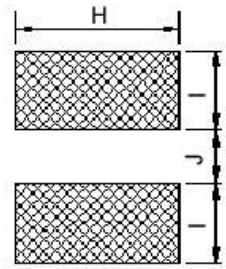
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
BWVN00322515	3.2±0.2	2.5±0.2	1.5±0.2	1.0	2.6	1.2	1.0

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

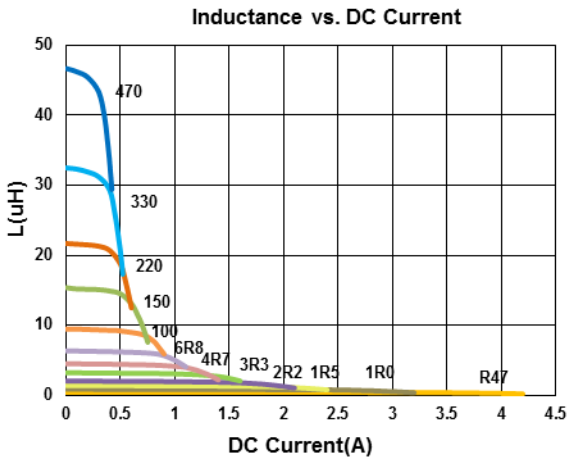
Electrical Characteristics

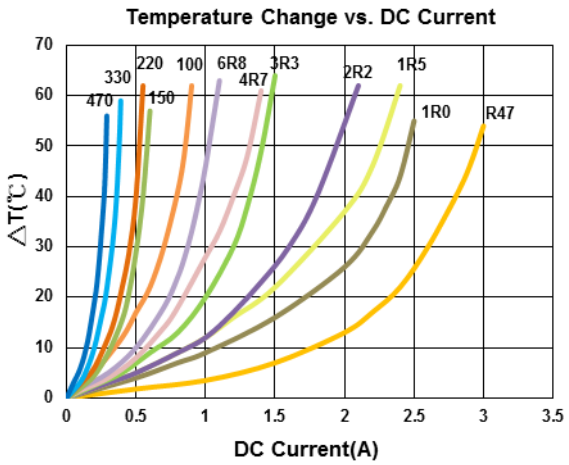
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC (Ω) ±20%	Isat (A)Max	Irms (A)Max	Marking
BWVN00322515R47□00	0.47	30	1	0.030	3.40	2.55	R47
BWVN003225151R0□00	1.0	20, 30	1	0.045	2.30	2.05	1R0
BWVN003225151R5□00	1.5	20, 30	1	0.057	1.75	1.75	1R5
BWVN003225152R2□00	2.2	20, 30	1	0.076	1.55	1.60	2R2
BWVN003225153R3□00	3.3	20, 30	1	0.12	1.25	1.20	3R3
BWVN003225154R7□00	4.7	20, 30	1	0.18	1.00	1.00	4R7
BWVN003225156R8□00	6.8	20, 30	1	0.24	0.85	0.85	6R8
BWVN00322515100□00	10	20, 30	1	0.38	0.75	0.70	100
BWVN00322515150□00	15	20, 30	1	0.70	0.55	0.50	150
BWVN00322515220□00	22	20, 30	1	0.81	0.50	0.45	220
BWVN00322515330□00	33	20, 30	1	1.05	0.36	0.32	330
BWVN00322515470□00	47	20, 30	1	1.48	0.28	0.24	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
- L：Agilent/HP4285A+ Agilent/HP42841A, 1MHz 200mV
  RDC：DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  Isat & Irms：Agilent HP4284A

Test Instruments：HP4287A Material/Impedance Analyzer





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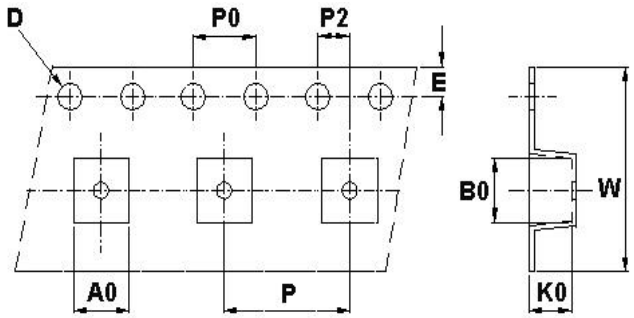
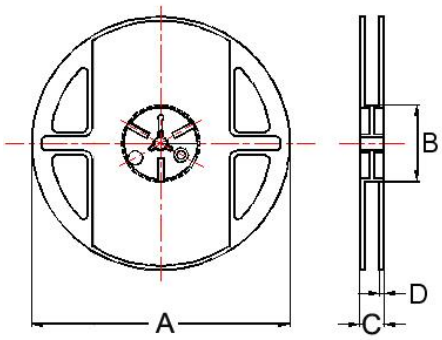
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / Reel
BWVN00322515	2.85	3.56	1.80	1.55	1.75	8	4	4	2	178	60	9	1.5	2000

BPMI Series

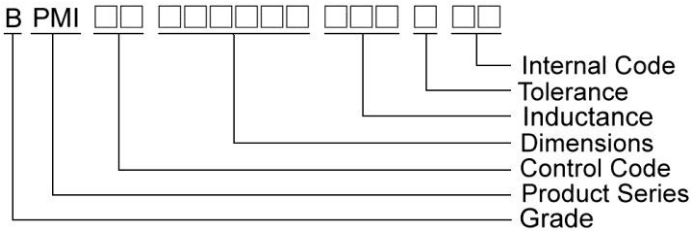
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

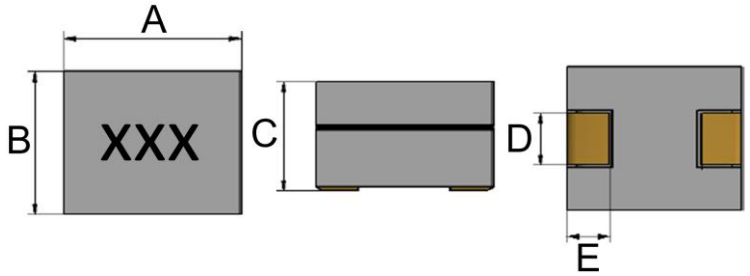
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

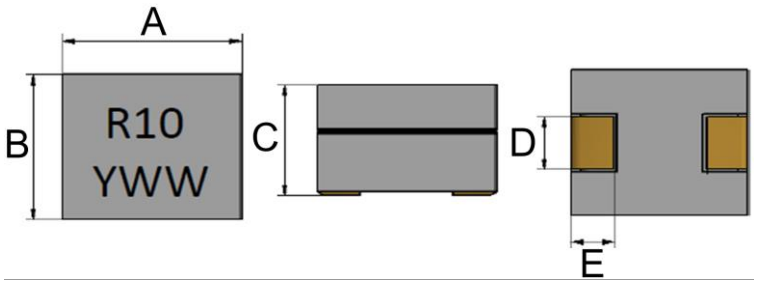


Shape and Dimensions

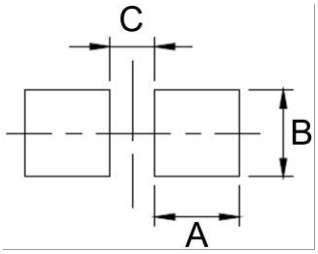
BPMI00040440-0J~0K



BPMI00040440-0H



Recommended Pattern



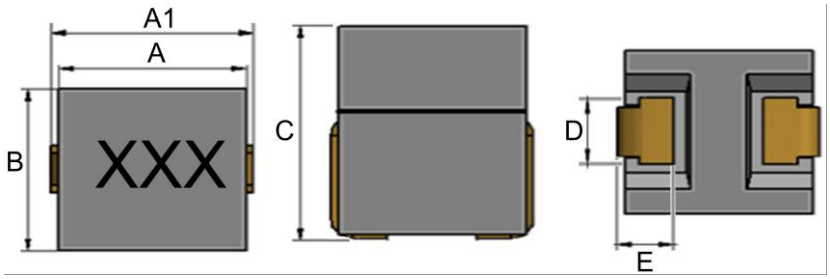
Dimensions in mm

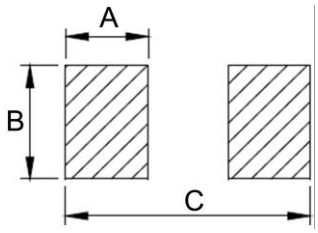
TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPMI00040440	4.2Max	4.0Max	4.0Max	1.4	1.3	1.7	1.9	0.9
BPMI00040440-0H	4.0Max	4.0Max	4.0Max	1.4±0.2	1.0±0.2	1.7	1.9	0.9

Shape and Dimensions

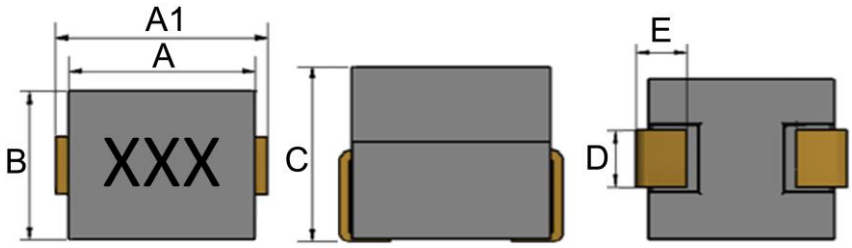
Recommended Pattern

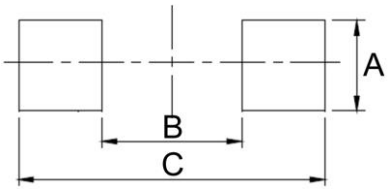
BPMI00050566





BPMI00060680

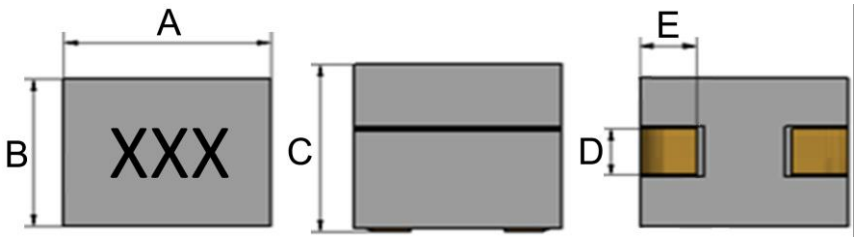


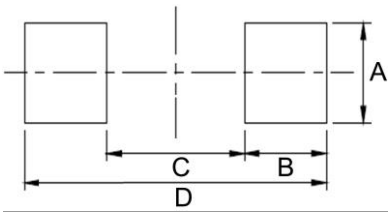


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	A1	B	C	D	E	A	B	C
BPMI00050566	5.0Max	5.2Max	5.0Max	6.6Max	2	1.2	1.85	2.60	5.5
BPMI00060680-0E	5.7±0.5	7.0±0.5	5.7±0.5	8.0Max	3.0±0.2	1.35	3.50	2.20	8.0
BPMI00060680-0H	5.7±0.5	7.0±0.5	5.7±0.5	7.5±0.5	3.0±0.2	1.7±0.2	3.50	2.20	8.0

BPMI00070750/100865/100868/100874/110778





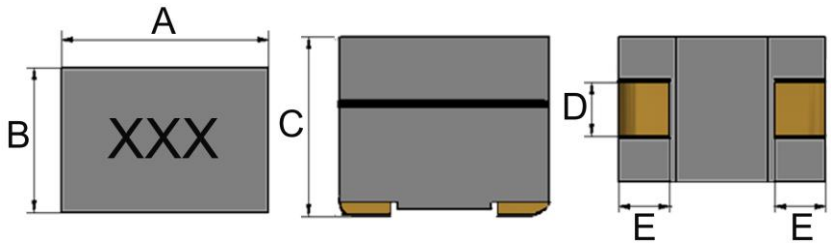
Dimensions in mm

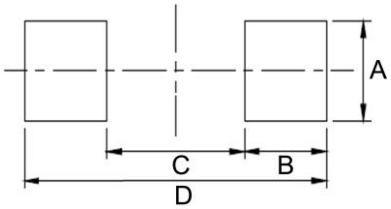
TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPMI00070750	7.0Max	7.0Max	4.96Max	2.49	1.52	3.05	2.03	3.3	7.36
BPMI00100865	10.41Max	8.0Max	6.5Max	2.24±0.25	2.54±0.25	2.79	3.05	4.32	10.42
BPMI00100868	10.2±0.2	$7.8^{+0.2}_{-0.3}$	6.8±0.2	2.24±0.15	2.54±0.12	2.50	3.30	4.7	11.3
BPMI00100874	$10.31^{+0.1}_{-0.3}$	7.65±0.25	$7.4^{+0.1}_{-0.4}$	2.21	2.54	3.05	3.30	4.57	11.17
BPMI00110778	11.0Max	7.2Max	7.8Max	1.55	2.54	2.54	3.56	4.06	11.18

Shape and Dimensions

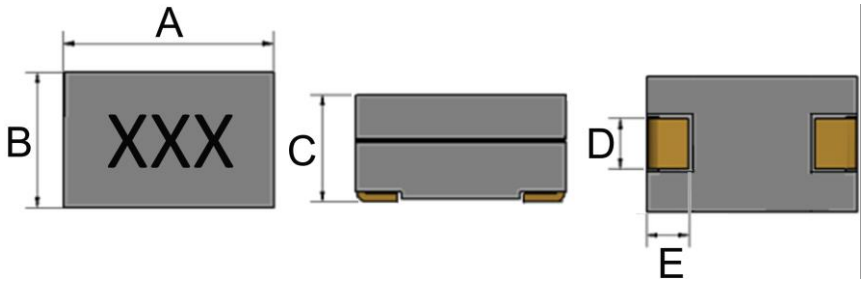
Recommended Pattern

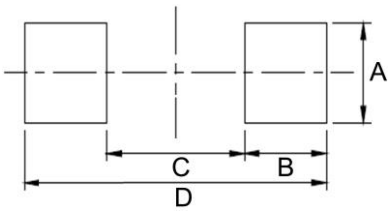
BPMI00090680



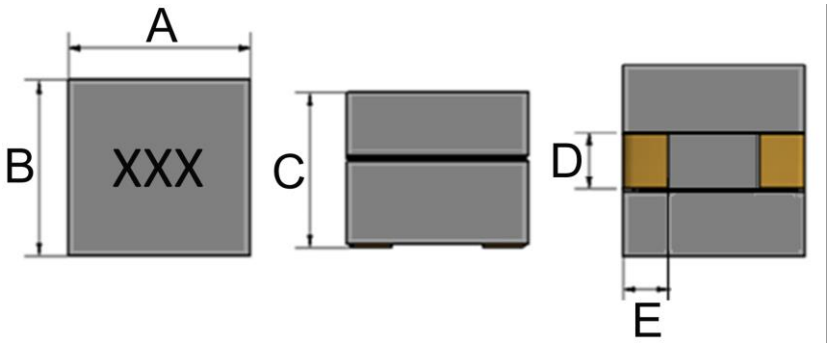


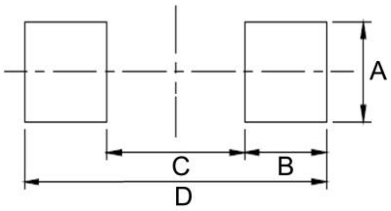
BPMI00100750





BPMI00111190





Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPMI00090680	9.4±0.2	6.2±0.2	8Max	2.14±0.2	2.3±0.2	2.54	3.2	4.0	10.4
BPMI00100750	10.2Max	7.0Max	4.96Max	2.49	1.52	3.05	2.03	6.35	10.41
BPMI00111190	11.2Max	11.2Max	9.0Max	2.03	2.54	2.54	3.05	5.33	11.43

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±9%	(A)Typ			Irms (A)Typ	Marking
					Isat 1	Isat 2	Isat 3		
BPMI0004044022N□0J	0.022	20,30	100	0.23	60	58	55	28	22N
BPMI0004044065N□0K	0.065	15,20,30	100	0.32	25	-	-	19	65N
BPMI00040440R10□0H	0.10	15,20,30	100	0.32	17	-	12	19	R10YWW

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 75℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp.100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	(A)Typ			Irms (A)Typ	Marking
					Isat 1	Isat 2	Isat 3		
BPMI0005056650N□0E	0.05	15,20,30	100	0.47±20%	70	69	66	40	50N
BPMI0005056650N□0F	0.05	15,20,30	100	0.27±7%	72	-	66	53	50N
BPMI00050566R10□0E	0.10	20,30	100	0.47±20%	35	32	29	40	R10
BPMI00050566R11□0E	0.11	20,30	100	0.27±7%	31	28	25	53	R11

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 45℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp.100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0006068032N□0E	0.032	10,15,20,30	100	0.23±10%	125	50	32N
BPMI00060680R10□0H	0.10	15,20,30	100	0.23±7%	40	35	R10
BPMI00060680R20□0H	0.20	15,20,30	100	0.23±7%	22	35	R20

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃(For 0.032~0.1uH)
- Isat：Based on inductance change (L(uH)：0.1uH Min)@ ambient temp. 25℃(For 0.20uH)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

tandard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0007075072N□00	0.072	10,20,30	100	0.32±9.4%	58	31	72N
BPMI00070750R10□00	0.10	10,20,30	100	0.32±9.4%	46	31	R10
BPMI00070750R11□00	0.11	20,30	100	0.32±9.4%	46	31	R11
BPMI00070750R12□00	0.12	10,20,30	100	0.32±9.4%	38	31	R12
BPMI00070750R15□00	0.15	10,20,30	100	0.32±9.4%	30	31	R15
BPMI00070750R18□00	0.18	10,20,30	100	0.32±9.4%	25	31	R18
BPMI00070750R22□00	0.22	10,20,30	100	0.32±9.4%	20	31	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Max	Marking
BPMI00090680R10□00	0.10	10,15,20	100	0.29±5%	95	51	R10
BPMI00090680R12□00	0.12	10,15,20	100	0.29±5%	80	51	R12
BPMI00090680R15□00	0.15	10,15,20	100	0.29±5%	65	51	R15
BPMI00090680R18□00	0.18	10,15,20	100	0.29±5%	54	51	R18
BPMI00090680R22□00	0.22	10,15,20	100	0.29±5%	44	51	R22
BPMI00090680R28□00	0.28	10,15,20	100	0.29±5%	34	51	R28
BPMI00090680R30□00	0.30	10,15,20	100	0.29±5%	32.5	51	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0010075085N□00	0.085	20,30	100	0.39±7.7%	>70	31	85N
BPMI00100750R10□00	0.10	15,20	100	0.39±7.7%	70	31	R10
BPMI00100750R12□00	0.12	15,20	100	0.39±7.7%	52	31	R12
BPMI00100750R15□00	0.15	15,20	100	0.39±7.7%	40	31	R15
BPMI00100750R16□00	0.155	15,20	100	0.39±7.7%	40	31	R155
BPMI00100750R20□00	0.20	15,20	100	0.39±7.7%	33	31	R20
BPMI00100750R22□00	0.22	15,20	100	0.39±7.7%	33	25	R22

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100865R12□00	0.12	15,20	100	0.48±8%	74	40	R12
BPMI00100865R14□00	0.14	15,20	100	0.48±8%	66	40	R14
BPMI00100865R18□00	0.18	15,20	100	0.48±8%	52	40	R18
BPMI00100865R22□00	0.215	15,20	100	0.48±8%	50	40	R215
BPMI00100865R30□00	0.30	15,20	100	0.48±8%	30	40	R30
BPMI00100865R60□00	0.60	15,20	100	0.48±8%	12	40	R60

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100868R12□0E	0.12	10,15,20	100	0.29±7%	80	54	R12
BPMI00100868R12□0F	0.12	10,15,20	100	0.29±5%	80	54	R12
BPMI00100868R14□0E	0.14	10,15,20	100	0.29±7%	72	54	R14
BPMI00100868R14□0F	0.14	10,15,20	100	0.29±5%	72	54	R14
BPMI00100868R17□0E	0.17	10,15,20	100	0.29±7%	58	54	R17
BPMI00100868R17□0F	0.17	10,15,20	100	0.29±5%	58	54	R17
BPMI00100868R18□0E	0.18	10,15,20	100	0.29±7%	56	54	R18
BPMI00100868R18□0F	0.18	10,15,20	100	0.29±5%	56	54	R18
BPMI00100868R22□0E	0.22	10,15,20	100	0.29±7%	50	54	R22
BPMI00100868R22□0F	0.22	10,15,20	100	0.29±5%	50	54	R22
BPMI00100868R30□0E	0.30	10,15,20	100	0.29±7%	32	54	R30
BPMI00100868R30□0F	0.30	10,15,20	100	0.29±5%	32	54	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00100874R12□00	0.115	15,20	100	0.29±10%	94	41	R115
BPMI00100874R13□00	0.13	15,20	100	0.29±10%	85	41	R13
BPMI00100874R15□00	0.15	15,20	100	0.29±10%	72	41	R15
BPMI00100874R17□00	0.17	15,20	100	0.29±10%	62	41	R17
BPMI00100874R18□00	0.175	15,20	100	0.29±10%	62	41	R175
BPMI00100874R22□00	0.215	15,20	100	0.29±10%	48	41	R215
BPMI00100874R23□00	0.23	15,20	100	0.29±10%	43	41	R23
BPMI00100874R27□00	0.27	15,20	100	0.29±10%	37	41	R27
BPMI00100874R30□00	0.30	15,20	100	0.29±10%	32	41	R30

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI0011077870N□00	0.07	15,20	100	0.29±10%	>70	48	70N
BPMI00110778R10□00	0.10	15,20	100	0.29±10%	>70	48	R10
BPMI00110778R12□00	0.12	15,20	100	0.29±10%	>70	48	R12
BPMI00110778R15□00	0.15	15,20	100	0.29±10%	70	48	R15
BPMI00110778R18□00	0.18	15,20	100	0.29±10%	55	48	R18
BPMI00110778R22□00	0.22	15,20	100	0.29±10%	47	48	R22
BPMI00110778R23□00	0.23	15,20	100	0.29±10%	44	48	R23
BPMI00110778R30□00	0.30	15,20	100	0.29±10%	32	48	R30
BPMI00110778R40□00	0.40	15,20	100	0.29±10%	23	48	R40
BPMI00110778R47□00	0.47	15,20	100	0.29±10%	17	48	R47
BPMI00110778R50□00	0.50	15,20	100	0.29±10%	17	48	R50
BPMI00110778R51□00	0.51	15,20	100	0.29±10%	17	48	R51

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 50℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPMI00111190R22□00	0.225	15,20,30	100	0.63±9.5%	68	35	R22
BPMI00111190R25□00	0.25	15,20,30	100	0.63±9.5%	63	35	R25
BPMI00111190R27□00	0.27	15,20,30	100	0.63±9.5%	50	35	R27
BPMI00111190R32□00	0.325	15,20,30	100	0.63±9.5%	43	35	R32
BPMI00111190R47□00	0.47	15,20,30	100	0.63±9.5%	30	35	R47

Note: When ordering, please specify tolerance code. Tolerance: L=±15% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ.)@ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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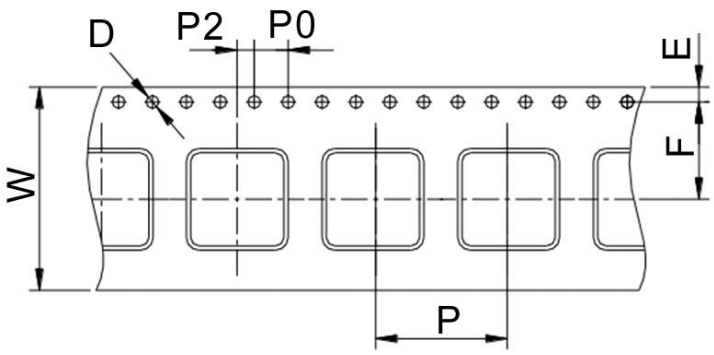
Pulse a YAGEO company

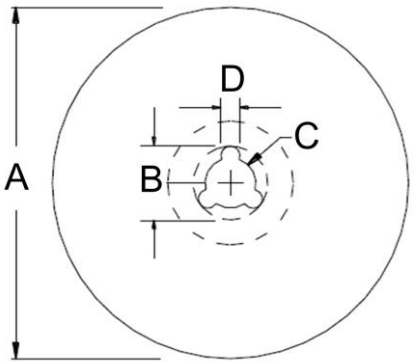
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



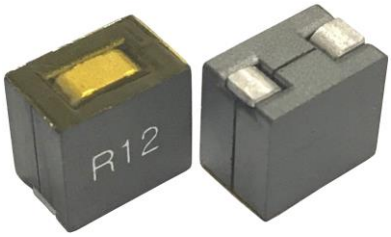
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMI00040440	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPMI00040440-0H	12	1.5	1.75	5.5	8	4	2	330	20	13	2	1800
BPMI00050566	16	1.5	1.75	7.5	12	4	2	330	20	13	2	750
BPMI00060680	16	1.5	1.75	7.5	12	4	2	330	20	13	2	700
BPMI00070750	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPMI00090680	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100750	24	1.5	1.75	11.5	12	4	2	330	20	13	2	800
BPMI00100865	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100868	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00100874	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00110778	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMI00111190	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPMV Series



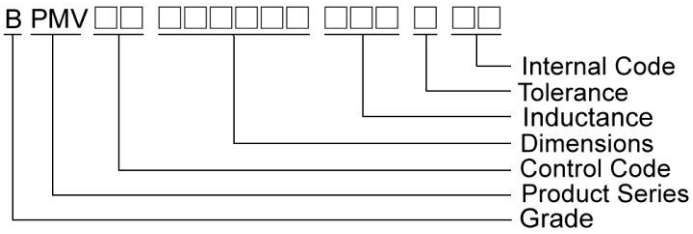
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification



Shape and Dimensions

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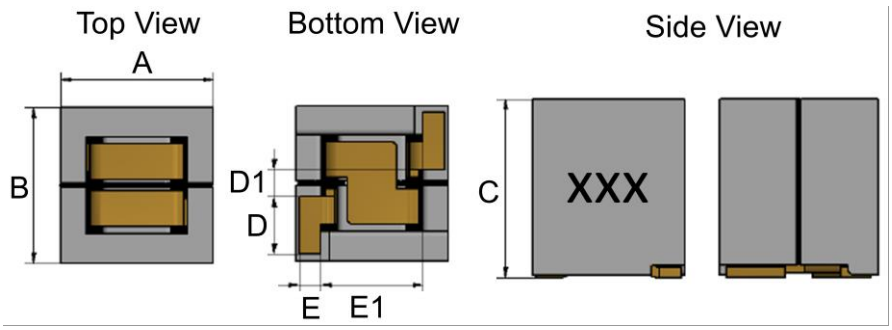
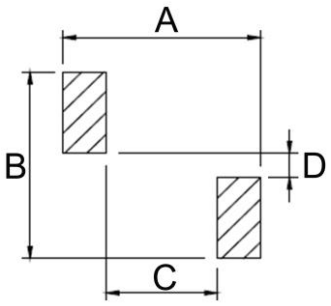


Recommended Pattern



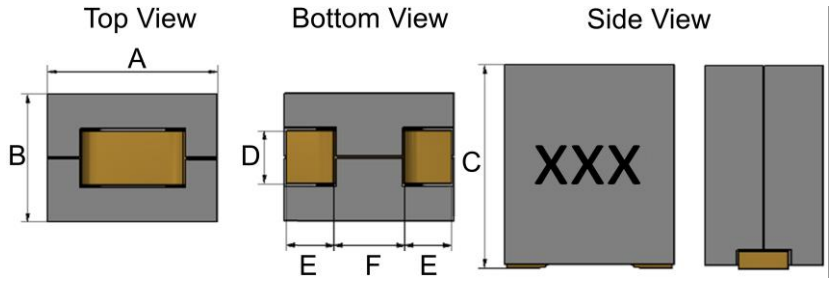
Dimensions in mm

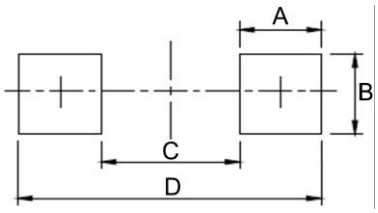
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	D1	E	E1	A	B	C	D
BPMV00070795	6.5Max	6.6Max	9.5Max	2.1	1.5	1.0	3.9	6.5	6.2	3.5	1
BPMV00070796	6.5Max	6.5Max	9.6Max	2.1	1.5	1.0	3.9	6.5	6.2	3.5	1

Shape and Dimensions

Recommended Pattern

BPMV00080812/110812





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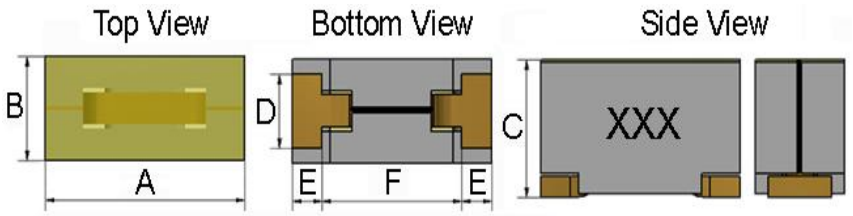

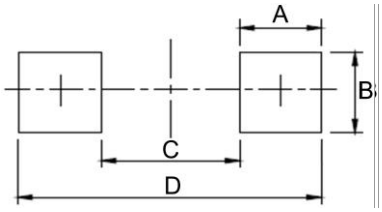

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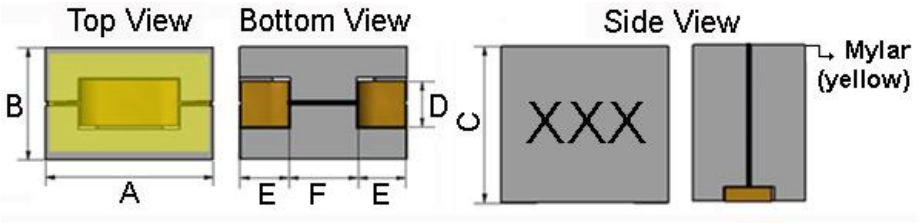

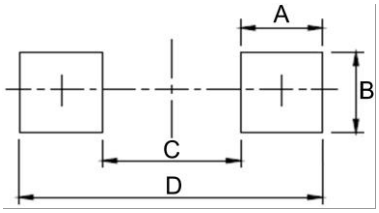

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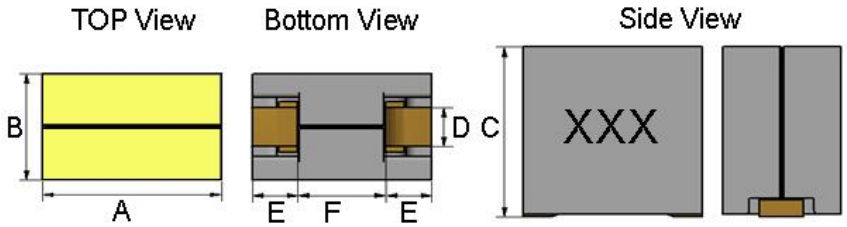

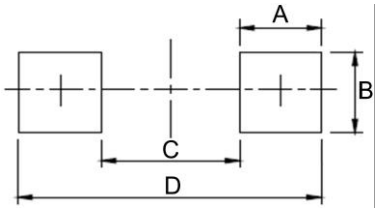

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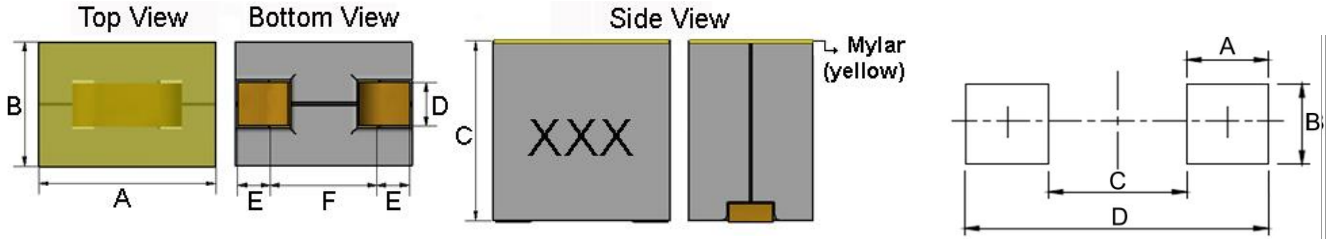
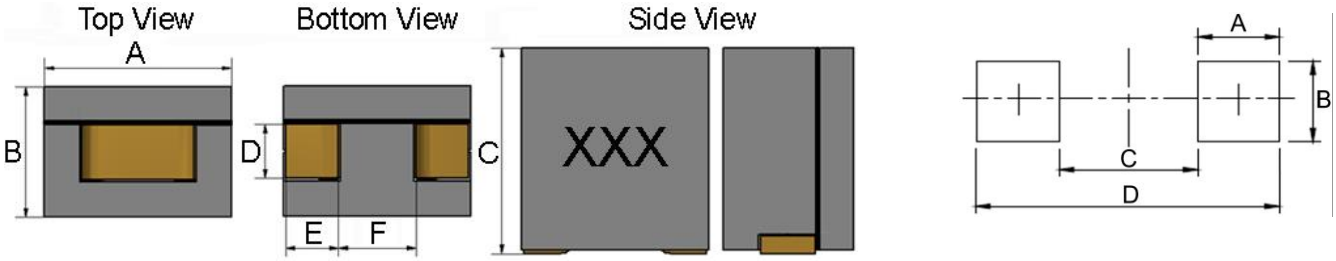


BPMV00110810



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPMV00080812	7.6Max	8.1Max	12Max	4.4±0.1	2	3.1	2.5	4.9	2.6	7.6
BPMV00100612	10Max	6Max	12Max	2.4	2.25	5.0	3.2	3.3	3.9	10.3
BPMV00100460	10 ±0.2	0.12uH 4.6 ±0.2 0.22uH 4.4 ±0.3	6.0Max	3.2	1.5	7.0	2.5	3.7	5.3	10.3
BPMV00100690	9.6Max	6.4Max 0.09uH 6.45Max	9.0Max	2.6	2.5	4.0	3.2	3.1	3.5	9.9
BPMV00100710	10Max	7.0Max	10Max	2.4±0.2	2.4	4.2	3.3	3.0	4.4	11.0
BPMV00110810	10.7Max	7.5Max	9.5Max	2.8	2.8	4.6	3.8	4.1	3.3	10.9
BPMV00110812	10.7Max	7.5Max	12Max	3.1	2.8	4.4	3.6	3.6	3.7	10.9

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±15%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00070795R20□2F	0.2	10,15,20	100	0.85	66	52	28	R20

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (L(uH)：0.128 Min (0.16 Typ)) @ ambient temp. 25℃
- Isat 2：Based on inductance change (L(uH)：0.128 Min (0.16 Typ)) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±15%	FLL (uH)Typ	Isat 1 (A)Typ 25℃	Isat 2 (A)Typ 100℃	Irms (A)Typ	Marking
BPMV00070796R40□2E	0.4	10,15,20	100	0.85	0.32	30	24	28	R40
BPMV00070796R60□2E	0.6	10,15,20	100	0.85	0.48	20	16	28	R60
BPMV000707961R0□2E	1.0	10,15,20	100	0.85	0.80	11	10	28	1R0

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Full load Inductance(FLL) Test Parameters：100kHz/1.0V, Isat 1(25℃) & Isat 2(100℃)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00080812R12□0E	0.12	10,15,20	100	0.155	95	79	60	R12
BPMV00080812R15□0E	0.15	10,15,20	100	0.155	86	73	60	R15
BPMV00080812R17□0E	0.17	10,15,20	100	0.155	75	64	60	R17
BPMV00080812R22□0E	0.22	10,15,20	100	0.155	57	48	60	R22
BPMV00080812R32□0E	0.32	10,15,20	100	0.155	37	31	60	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat (A)Typ	Irms (A)Typ	Marking
BPMV00100460R12□0H	0.12	10,15,20	100	0.23	55	70	R12
BPMV00100460R22□0F	0.22	10,15,20	100	0.23	22	70	R22

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	Isat 1	Isat 2	Isat 3	Isat 4 (A)Typ	Irms (A)Typ	Marking
BPMV00100612R10□0E	0.1	10,15,20	100	0.125	125	105	96	88	77	R10
BPMV00100612R12□0E	0.12	10,15,20	100	0.125	105	93	88	81	77	R12
BPMV00100612R12□0H	0.12	10,15,20	500	0.125	105	93	88	81	77	R12
BPMV00100612R15□0E	0.15	10,15,20	100	0.125	83	75	78	65	77	R15
BPMV00100612R15□0H	0.15	10,15,20	500	0.125	83	75	78	65	77	R15
BPMV00100612R33□0E	0.33	10,15,20	100	0.125	40	33	28	26	77	R33

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 75℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Isat 4：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV0010069090N□0E	0.09	10,15,20	100	0.17	125	104	66	90N
BPMV00100690R12□0E	0.12	10,15,20	100	0.17	94	75	66	R12
BPMV00100690R15□0E	0.15	10,15,20	100	0.17	75	55	66	R15
BPMV00100690R21□0E	0.21	10,15,20	100	0.17	50	37.5	66	R21
BPMV00100690R30□0E	0.30	10,15,20	100	0.17	33	29	66	R30

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Inductance @ Isat 1 (uH)Typ	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	(A)Typ Isat 1	Isat 2	Isat 3	Irms (A)Typ	Marking
BPMV00100710R10□0E	0.10	0.09	15	100	0.185	113	86	81	68	R10
BPMV00100710R12□0E	0.12	0.12	15	100	0.185	90	80	75	68	R12
BPMV00100710R15□0E	0.15	0.15	15	100	0.185	80	75	73	68	R15
BPMV00100710R33□0E	0.33	0.31	15	100	0.185	43	33	31	68	R33

Note: When ordering, please specify tolerance code. Tolerance: L=±15%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃
- Isat 3：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 125℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110810R12□00	0.12	10,15,20	100	0.23	105	87	61	R12
BPMV00110810R15□00	0.15	10,15,20	100	0.23	90	70	61	R15
BPMV00110810R20□00	0.20	10,15,20	100	0.23	70	58	61	R20
BPMV00110810R22□00	0.22	10,15,20	100	0.23	64	51	61	R22
BPMV00110810R25□00	0.25	10,15,20	100	0.23	56	45	61	R25
BPMV00110810R27□00	0.27	10,15,20	100	0.23	55	44	61	R27
BPMV00110810R30□00	0.30	10,15,20	100	0.23	47	37	61	R30
BPMV00110810R32□00	0.32	10,15,20	100	0.23	42	36	61	R32
BPMV00110810R36□00	0.36	10,15,20	100	0.23	38	34	61	R36
BPMV00110810R40□00	0.40	15,20	100	0.23	36	29	61	R40
BPMV00110810R47□00	0.47	20	100	0.23	28	25	61	R47

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±5%	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110812R15□0E	0.15	10,15,20	100	0.15	115	97	75	R15
BPMV00110812R18□0E	0.18	10,15,20	100	0.15	85	72	75	R18
BPMV00110812R22□0E	0.22	10,15,20	100	0.15	75	64	75	R22
BPMV00110812R25□0E	0.25	10,15,20	100	0.15	66	56	75	R25
BPMV00110812R27□0E	0.27	10,15,20	100	0.15	60	51	75	R27
BPMV00110812R30□0E	0.30	10,15,20	100	0.15	55	45	75	R30
BPMV00110812R32□0E	0.32	10,15,20	100	0.15	51	43	75	R32

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)±10%	FLL (uH)Min	(A)Typ Isat 1	(A)Typ Isat 2	Irms (A)Typ	Marking
BPMV00110812R15□0F	0.15	10,15,20	100	0.15	0.096	115	97	75	R15
BPMV00110812R16□0F	0.16	10,15,20	100	0.15	0.102	99	84	75	R16
BPMV00110812R17□0F	0.17	10,15,20	100	0.15	0.109	91.5	78	75	R17
BPMV00110812R18□0F	0.18	10,15,20	100	0.15	0.115	89	76	75	R18
BPMV00110812R20□0F	0.20	10,15,20	100	0.15	0.128	81	69	75	R20
BPMV00110812R22□0H	0.22	10,15,20	100	0.15	-	75	64	75	R22
BPMV00110812R25□0F	0.25	10,15,20	100	0.15	0.160	66	56	75	R25
BPMV00110812R27□0F	0.27	10,15,20	100	0.15	0.173	60	51	75	R27
BPMV00110812R32□0F	0.32	10,15,20	100	0.15	-	51	43	75	R32
BPMV00110812R40□0F	0.40	10,15,20	100	0.15	0.256	41	35	75	R40
BPMV00110812R47□0F	0.47	10,15,20	100	0.15	0.301	34	29	75	R47
BPMV00110812R60□0F	0.60	15,20	100	0.15	0.384	24.5	21	75	R60

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃(For 0.22,0.32uH)
- Isat 2：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 100℃(For 0.22,0.32uH)
- Full load Inductance(FLL) Test Parameters：100kHz/1.0V, Isat 1(25℃) & Isat 2(100℃)
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

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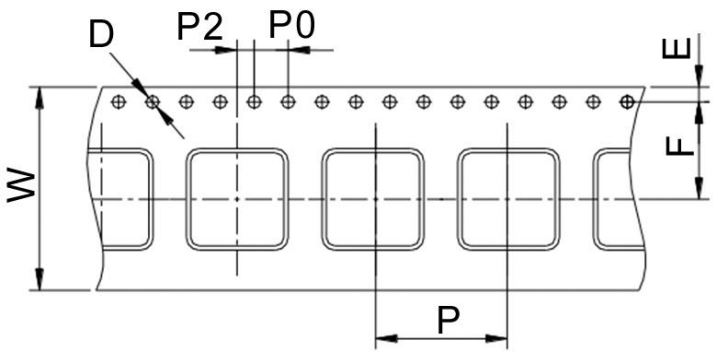
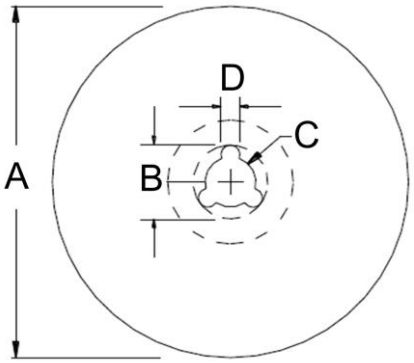
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMV00070795	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00070796	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00080812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100460	24	1.5	1.75	11.5	12	4	2	330	20	13	2	750
BPMV00100612	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300
BPMV00100690	24	1.5	1.75	11.5	12	4	2	330	20	13	2	500
BPMV00100710	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110810	24	1.5	1.75	11.5	16	4	2	330	20	13	2	350
BPMV00110812	24	1.5	1.75	11.5	16	4	2	330	20	13	2	300

BPMS Series

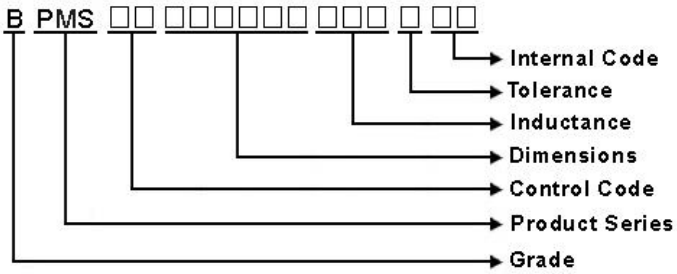
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

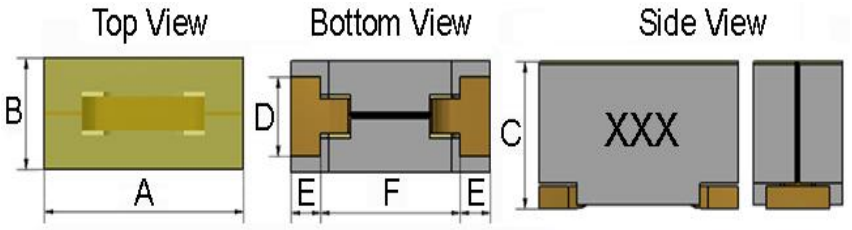
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

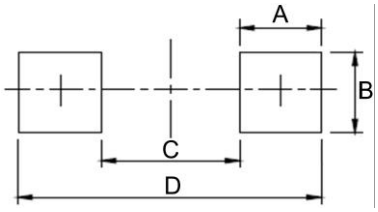


Shape and Dimensions

BPMS00100460



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPMS00100460	10 ±0.2	50N 4.4±0.3 80N 4.4±0.2	6.0Max	3.2	1.5	7.0	2.5	3.7	5.3	10.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BPMS0010046050N□VE	0.05	10,15,20	100	0.25	120	60	50N
BPMS0010046080N□VE	0.08	10,15,20	100	0.25	90	45	80N

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , L=±15% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat：Based on inductance change (△L/Lo：drop 20% Typ) @ ambient temp. 25℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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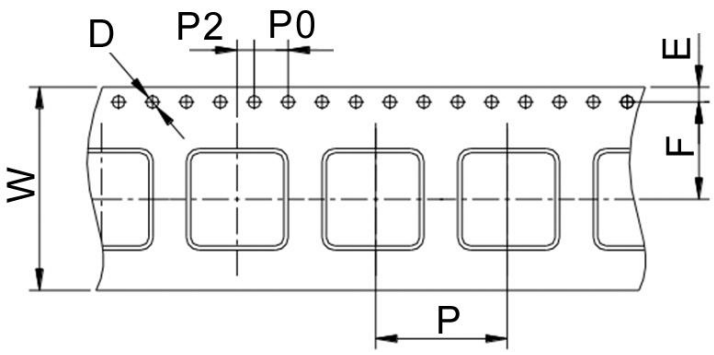
Pulse a YAGEO company

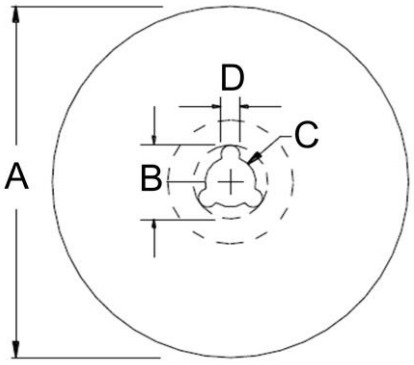
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPMS00100460	24	1.5	1.75	11.5	12	4	2	330	20	13	2	750

BPRQ Series

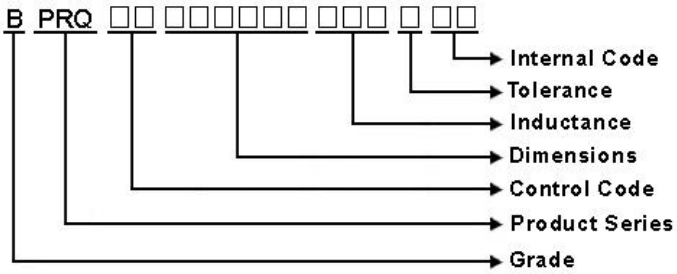
Features

- RoHS, Halogen Free and REACH Compliance
- Surface mount inductors designed for high speed, high current switch mode applications requiring lower inductance
- Gapped ferrite cores for maximum efficiency
  Customized specifications are available

Applications

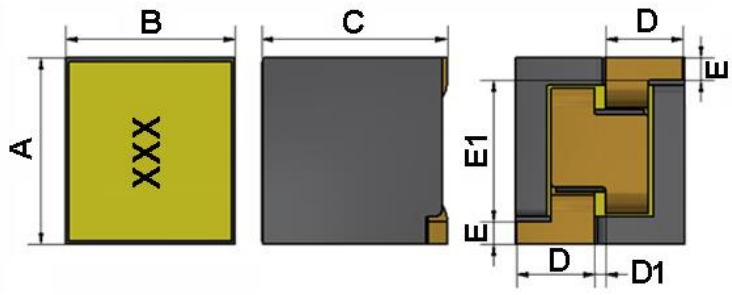
- Voltage regulator modules (VRMs) for servers, microprocessors
- High frequency, high current switching power supplies

Product Identification

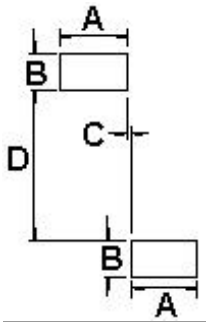


Shape and Dimensions

BPRQ00121112



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	D1	E	E1	A	B	C	D
BPRQ00121112	11.85 ±0.3	10.85 ±0.3	12Max	4.95	0.75	1.43	8.60	5.35	2.00	0.35	8.60

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max(Typ)	Isat1 (A)Typ	Isat2 (A)Typ	Irms (A)Typ	Marking
BPRQ00121112R30M2E	0.30	20	100kHz	0.352(0.32)	95	71	55	R30
BPRQ00121112R33M2E	0.33	20	100kHz	0.352(0.32)	90	70	55	R33
BPRQ00121112R39M2E	0.39	20	100kHz	0.352(0.32)	80	62	55	R39

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 25℃
- Isat 2：Based on inductance change (△L/Lo： drop 20% Typ) @ ambient temp. 100℃
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat 1 or Irms

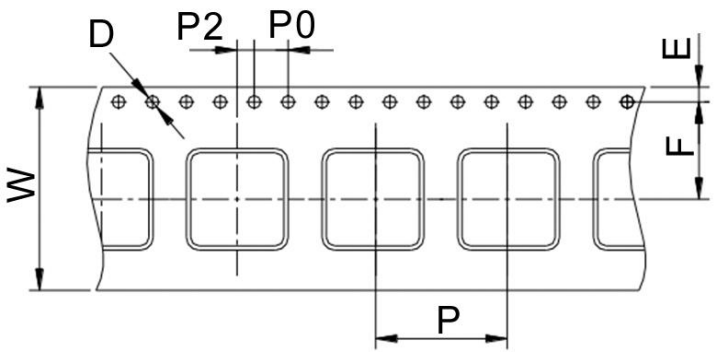
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

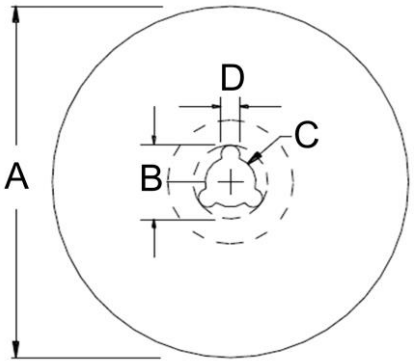
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPRQ00121112	24	1.5	1.75	11.5	20	4	2	330	20	13	2	200

BFSI Series

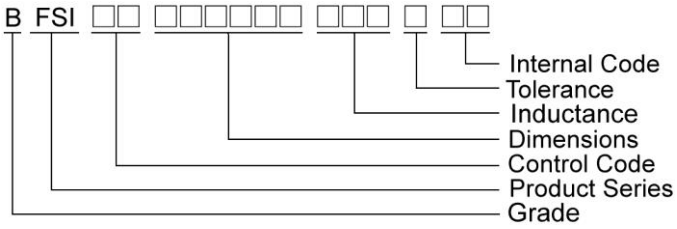
Features

- Shield construction
- Flat wire winding, achieve a low dc resistance
- Low loss, High efficiency, wide application frequency and application scope
- Lightweight design, save a space, suitable for high density SMT
- Heat dissipation

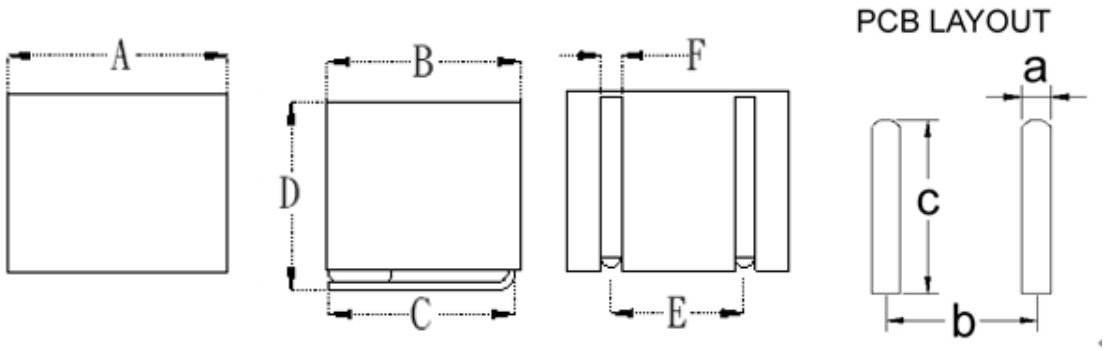
Applications

- Umpc/NBPC
- Desk Top/LCD monitor
- PDA/Lap Top
- Server systems/Computer lord plank
- Mobile Phone/ DV/HDD

Product Identification



Shapes and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E	F	a	b	c
BFSI00090908	9.3Max	9.0Max	6.7±0.3	8.1±0.4	6.0±0.4	1.2±0.1	1.6	6	8
BFSI00121109	12±0.5	11±0.5	8.4±0.3	8.8Max	8.0±0.4	1.6±0.1	2.0	8	10

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BFSI00090908R68M05	0.68	20	100/1V	2(1.3)	38	36
BFSI000909081R0M05	1.0	20	100/1V	2.5(1.7)	31	34
BFSI000909081R5M05	1.5	20	100/1V	3.5(2.5)	28	28
BFSI000909082R2M05	2.2	20	100/1V	3.8(2.9)	24	25
BFSI000909083R3M05	3.3	20	100/1V	6.5(5.6)	19	17.5
BFSI000909084R7M05	4.7	20	100/1V	8.5(7)	17.5	15
BFSI000909086R8M05	6.8	20	100/1V	13(12)	14	12
BFSI000909088R2M05	8.2	20	100/1V	15(13.3)	12	11
BFSI00090908100M05	10	20	100/1V	15.5(13.8)	11	10

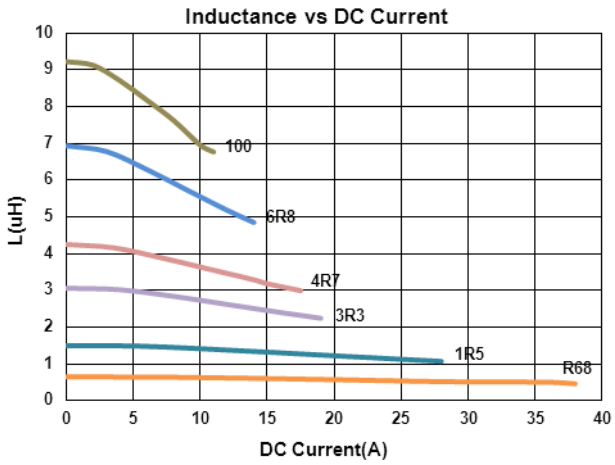
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

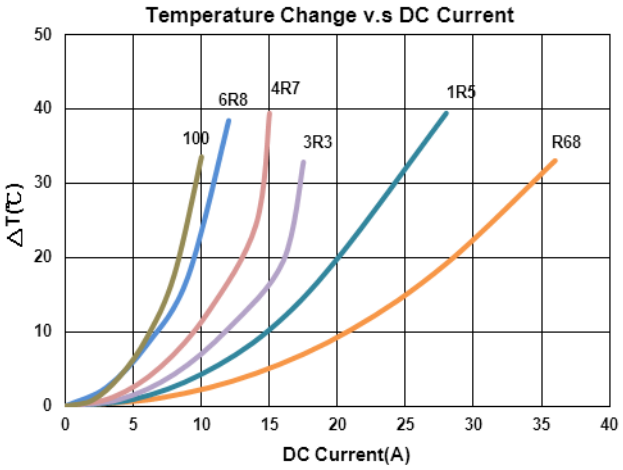
- Customized Specifications are welcome
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Apply glue around the product to fix the product body after loading the plate
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC(mΩ) Max(Typ)	Isat (A)Typ.	Irms (A)Typ.
BFSI00121109R47M05	0.47	20	100/1V	1.5(1.1)	65	50
BFSI001211091R0M05	1.0	20	100/1V	2.0(1.5)	45	40
BFSI001211091R5M05	1.5	20	100/1V	2.5(2.0)	36	33
BFSI001211092R2M05	2.2	20	100/1V	2.8(2.4)	30	30
BFSI001211093R3M05	3.3	20	100/1V	3.8(3.3)	26	26
BFSI001211094R7M05	4.7	20	100/1V	6.2(5.7)	23	20
BFSI001211095R6M05	5.6	20	100/1V	7.0(6.4)	21	18
BFSI001211096R8M05	6.8	20	100/1V	7.8(6.8)	19	17
BFSI001211098R2M05	8.2	20	100/1V	9.0(8.2)	18	16
BFSI00121109100M05	10	20	100/1V	12(11.3)	17.5	13
BFSI00121109150M05	15	20	100/1V	15(14.3)	13.5	11

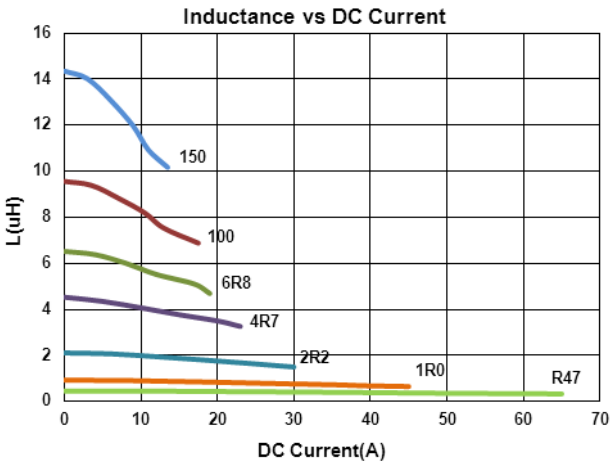
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

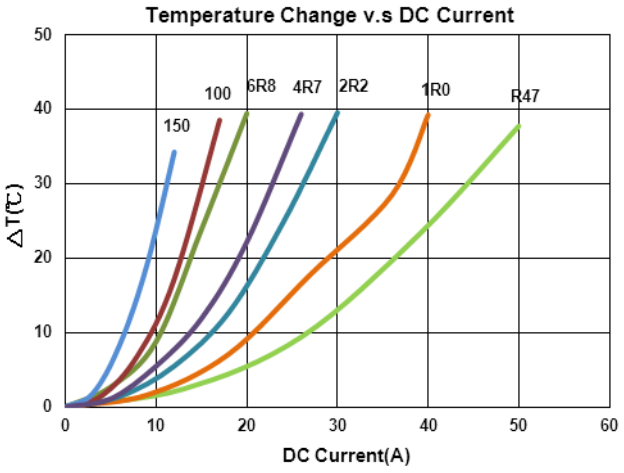
- Customized Specifications are welcome
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Apply glue around the product to fix the product body after loading the plate
- Measure Equipment：

  L：WK4237

  RDC：CHEN HWA502

  Isat & Irms：WK3260B/ 3265





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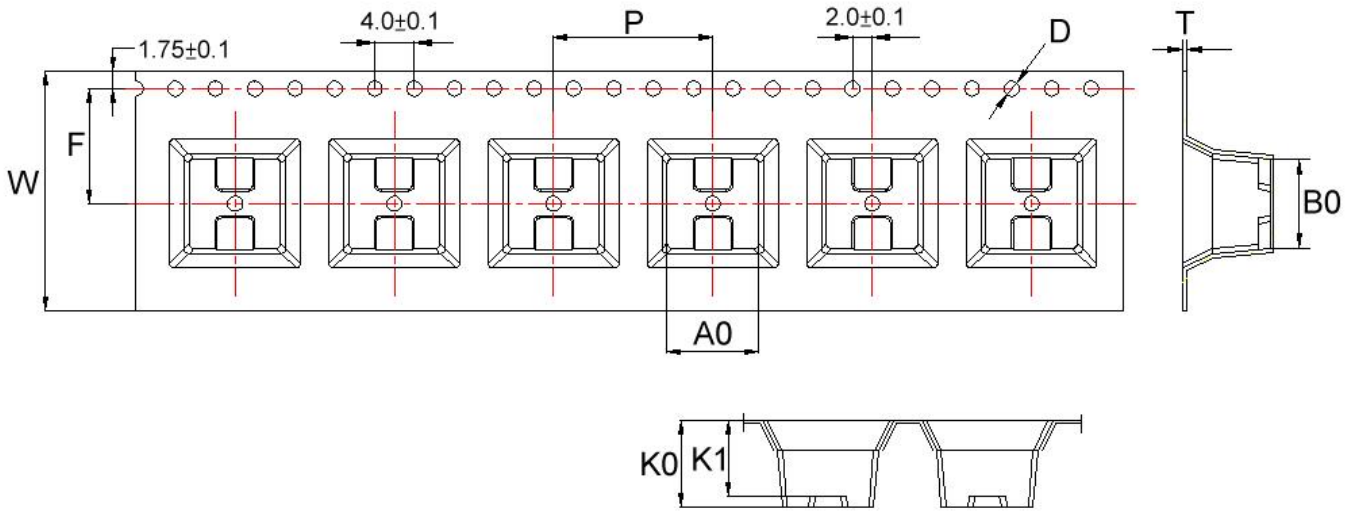
Pulse a YAGEO company

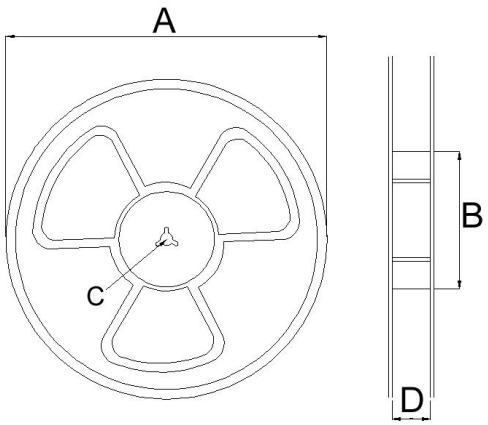
CHILISIN ELECTRONICS CORP.

Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	K1	D	F	W	T	P	A	B	C	D	PCS / REEL
BFSI00090908	9.2	9	8.8	7.60	1.5	11.5	24	0.4	16	330	100	13	24.3	300
BFSI00121109	12.2	11	9.0	8.07	1.5	11.5	24	0.5	20	330	100	13	24.3	240

BP3Y Series

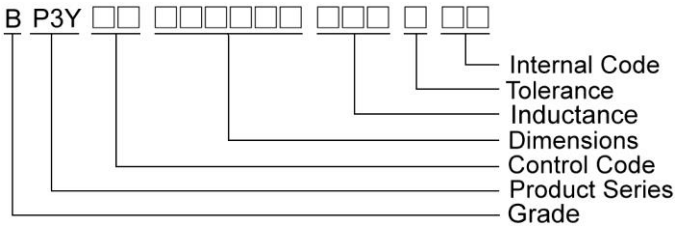
Features

- Operting Temperature up tp 125℃
- Halogn Free
- Shielded construction
- AEC-Q200 qualified
- High saturation current

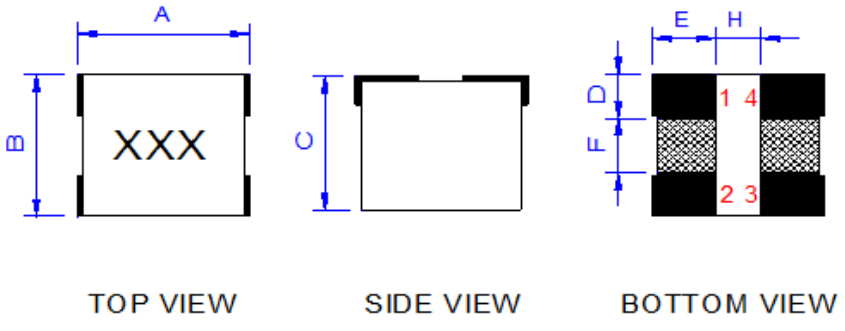
Applications

- DC/DC converters for entertainment/navigation systems
- LED Headlight & DRL
- Automobile Instrument Cluster
- Class-D Audio Amp.

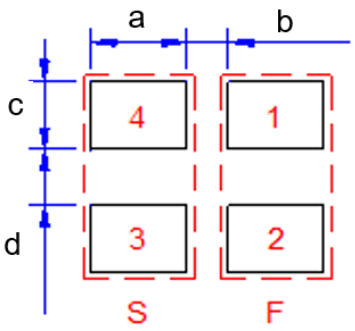
Product Identification



Shapes and Dimensions



Recommended Pattern

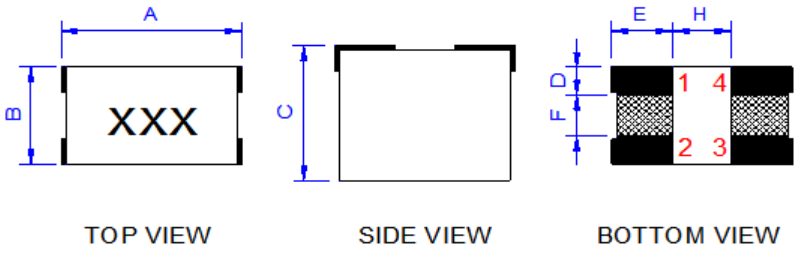


Dimensions in mm

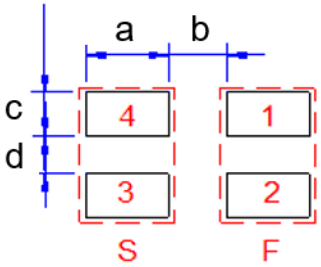
TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00080807	9.7Max	8.8Max	8.5 Max	2.55±0.4	3.3±0.4	3.2	2.3	3.9	1.7	3.15	2.6

SMD Shielded Power Inductor – BP3Y Series

Shapes and Dimensions



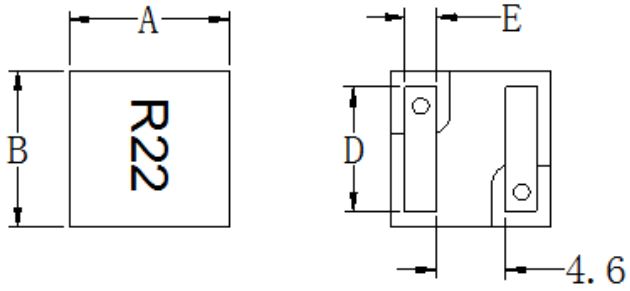
Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00100609	11.5Max	7.2Max	9.7 Max	1.9±0.4	3.7±0.5	2.8	3.6	4.3	3.0	2.5	2.2

Shapes and Dimensions



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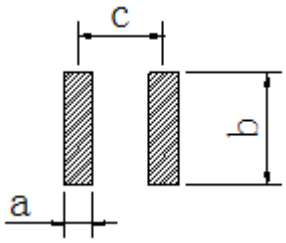
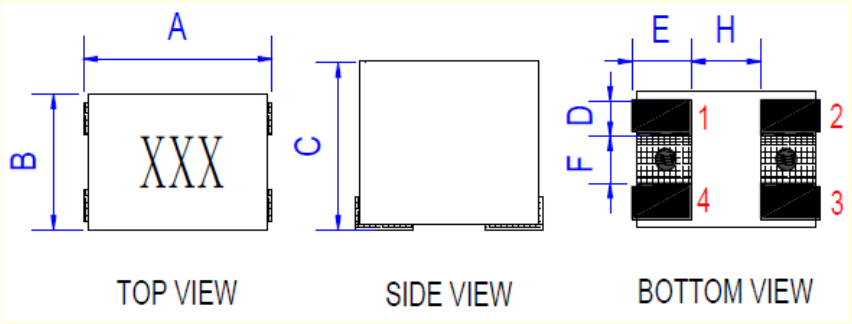


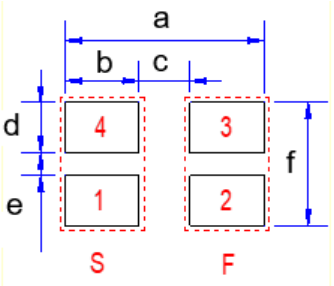
Dimensions in mm

TYPE	A	B	C	D	E	a	b	c
BP3Y00101010	11.8Max	11.8Max	10.0Max	8.6±0.3	2.2±0.3	2.38	9.0	6.65

Shapes and Dimensions



Recommended Pattern

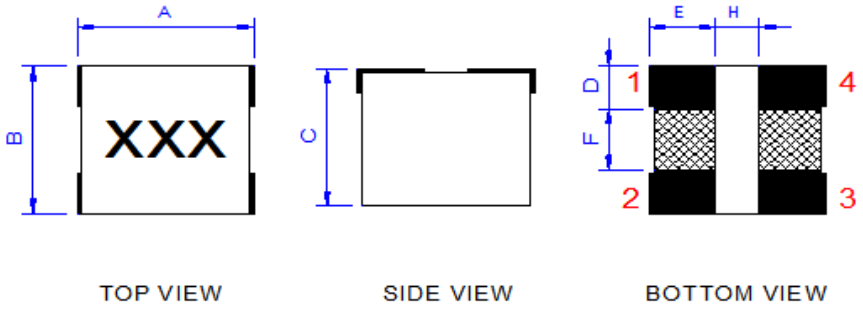


Dimensions in mm

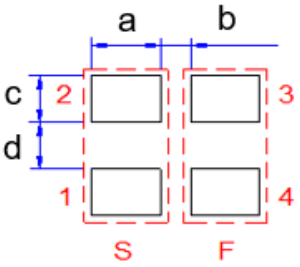
TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00110809	12.0Max	8.0Max	10.2Max	2.3±0.5	3.5±0.5	2.0	4.3	12.1	4.5	3.1	3.1	1.4	7.6

SMD Shielded Power Inductor – BP3Y Series

Shapes and Dimensions



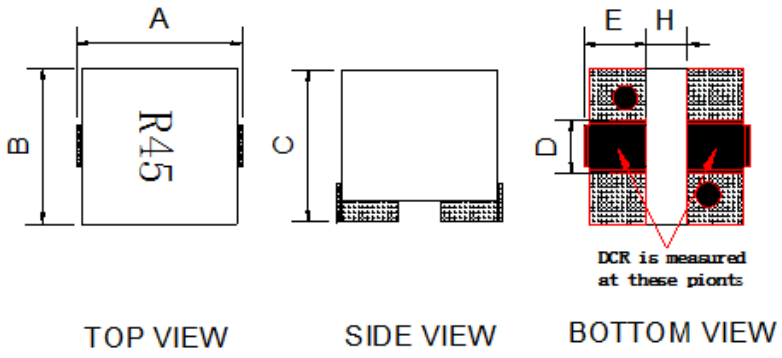
Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d
BP3Y00111010	11.3Max	10.8Max	10.5 Max	3.0	4.05±0.4	4.2	2.65	4.65	2.05	3.6	3.6

Shapes and Dimensions



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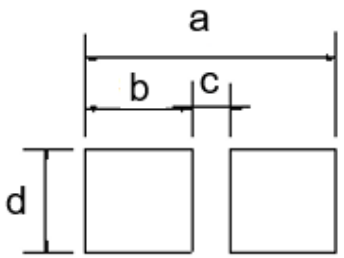
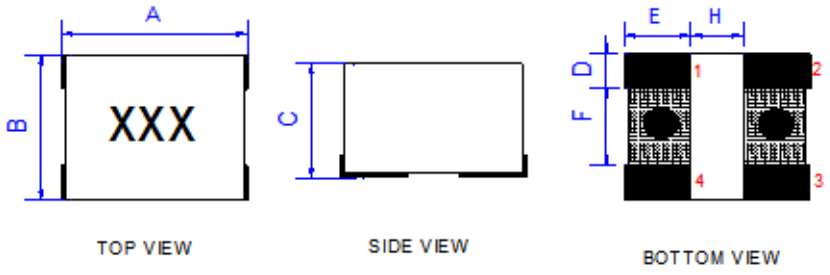


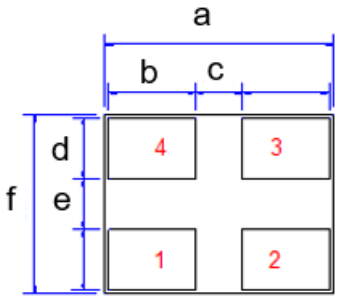
Dimensions in mm

TYPE	A	B	C	D	E	H	a	b	c	d
BP3Y00111110	13.0Max	12.2Max	10.5+1.0/-0.5	3.9±0.5	4.5±0.5	3.0	13	5.5	2.0	5.0

Shapes and Dimensions



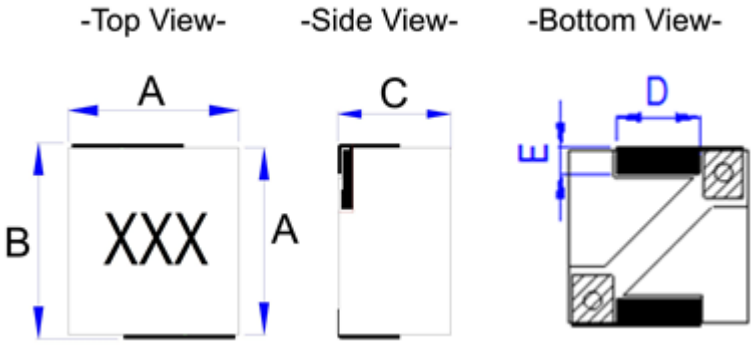
Recommended Pattern



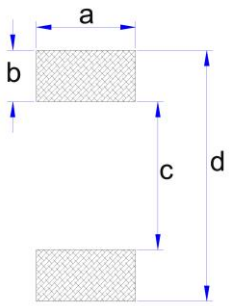
Dimensions in mm

TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00131210	14.7Max	13.0Max	10.5Max	3.8±0.4	5.0±0.4	4.6	3.7	15.2	5.8	3.1	4.6	3.8	13.5

Shapes and Dimensions



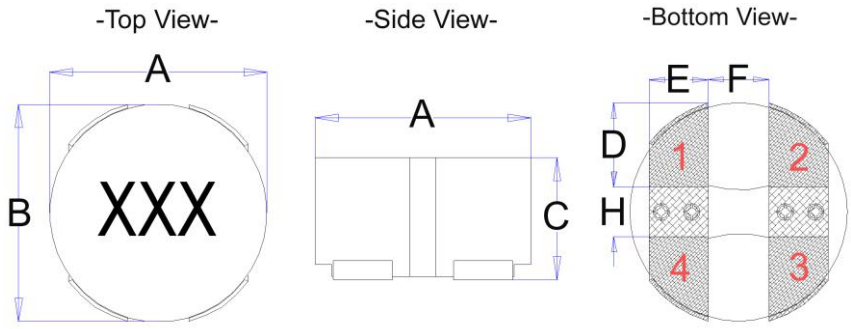
Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	a	b	c	d
BP3Y00151510	15Max	15.7Max	10.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1
BP3Y00151511	15Max	15.7Max	11.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1
BP3Y00151513	15Max	15.7Max	13.5Max	5.1±0.5	2.3±0.5	6.6	3.3	9.5	16.1

Shapes and Dimensions



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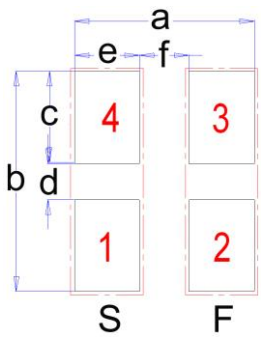


Dimensions in mm

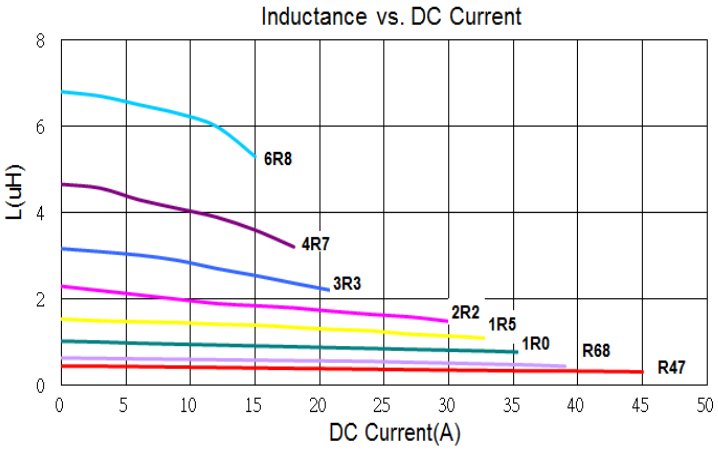
TYPE	A	B	C	D	E	F	H	a	b	c	d	e	f
BP3Y00202015	21.5Max	21.5Max	15.2ax	7.7±0.5	5.5±0.5	6.0	4.6	18.2	21.4	8.9	3.6	6.7	4.8
BP3Y00282816	29.5Max	29.5Max	16Max	11.3±0.5	7.7±0.5	8.0	5.63	24.6	29.95	12.51	4.93	8.9	6.8

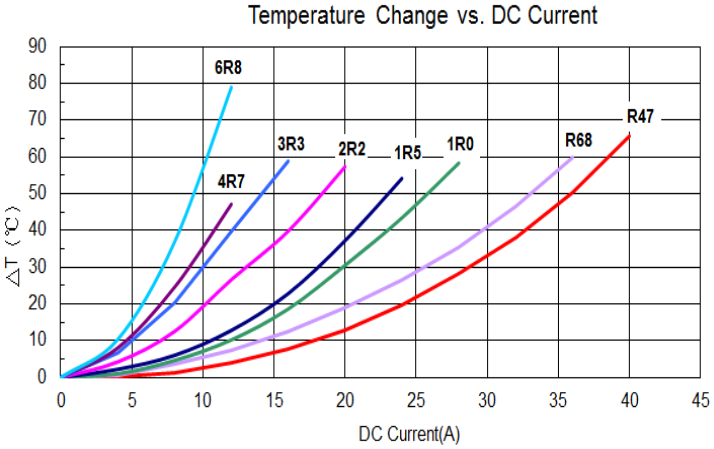
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00080807R47M00	0.47	20	100/1V	1.6	42	32	R47
BP3Y00080807R68M00	0.68	20	100/1V	2.08	40	29	R68
BP3Y000808071R0M00	1.0	20	100/1V	3.4	35	23	1R0
BP3Y000808071R5M00	1.5	20	100/1V	4.7	31	20	1R5
BP3Y000808072R2M00	2.2	20	100/1V	7.75	25	14	2R2
BP3Y000808073R3M00	3.3	20	100/1V	9.15	17	12.5	3R3
BP3Y000808074R7M00	4.7	20	100/1V	12.6	16	11	4R7
BP3Y000808076R8M00	6.8	20	100/1V	19.55	14	8.5	6R8

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
  Irms for a 40℃ temperature rise from 25℃ ambient with current





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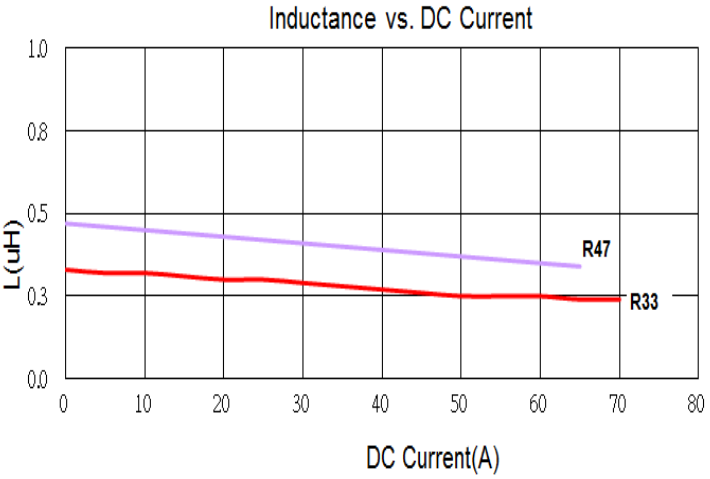
CHILISIN ELECTRONICS CORP.

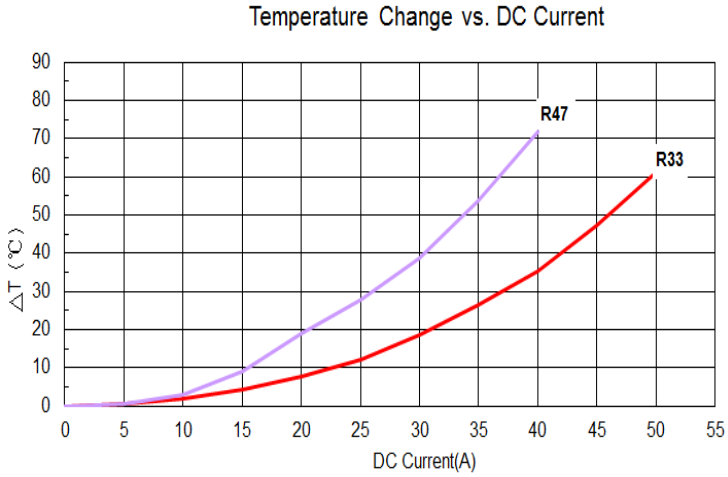
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00100609R33M00	0.33	20	100/1V	1.2	67	40	R33
BP3Y00100609R47M00	0.47	20	100/1V	1.85	65	30	R47

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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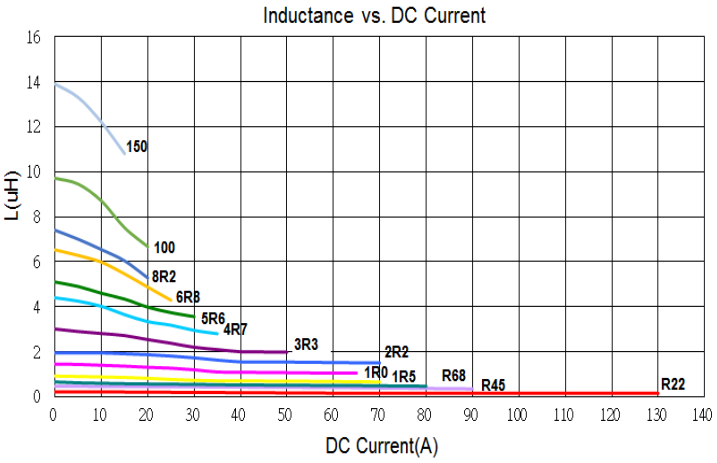
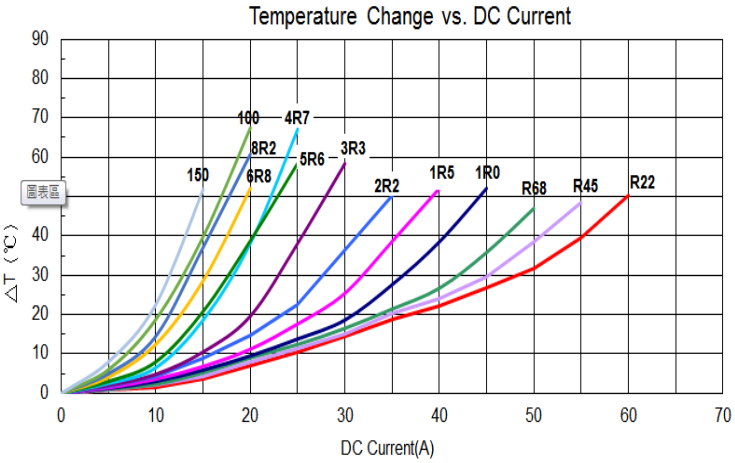
BP3Y00101010R22M00	0.22	20	100/1V	0.55	130	55	R22
BP3Y00101010R45M00	0.45	20	100/1V	0.8	90	50	R45
BP3Y00101010R68M00	0.68	20	100/1V	1.0	80	45	R68
BP3Y001010101R0M00	1.0	20	100/1V	1.3	68	40	1R0
BP3Y001010101R5M00	1.5	20	100/1V	1.9	62	35	1R5
BP3Y001010102R2M00	2.2	20	100/1V	3.1	70	30	2R2
BP3Y001010103R3M00	3.3	20	100/1V	4.3	48	25	3R3
BP3Y001010104R7M00	4.7	20	100/1V	6.7	28	20	4R7
BP3Y001010105R6M00	5.6	20	100/1V	7.4	27	21.2	5R6
BP3Y001010106R8M00	6.8	20	100/1V	9.4	22	18	6R8
BP3Y001010108R2M00	8.2	20	100/1V	14.5	20	16.5	8R2
BP3Y00101010100M00	10	20	100/1V	16.5	19	15	100
BP3Y00101010150M00	15	20	100/1V	21.5	16	13	150

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y001108091R0M00	1.0	20	100/1V	2.8	67	28	1R0
BP3Y001108091R5M00	1.5	20	100/1V	3.1	55	26	1R5
BP3Y001108092R2M00	2.2	20	100/1V	4.5	40	22	2R2
BP3Y001108094R7M00	4.7	20	100/1V	11.5	33	12	4R7
BP3Y001108096R8M00	6.8	20	100/1V	14.5	16	10	6R8
BP3Y001108098R2M00	8.2	20	100/1V	18	15	9	8R2
BP3Y00110809100M00	10	20	100/1V	21	14	8	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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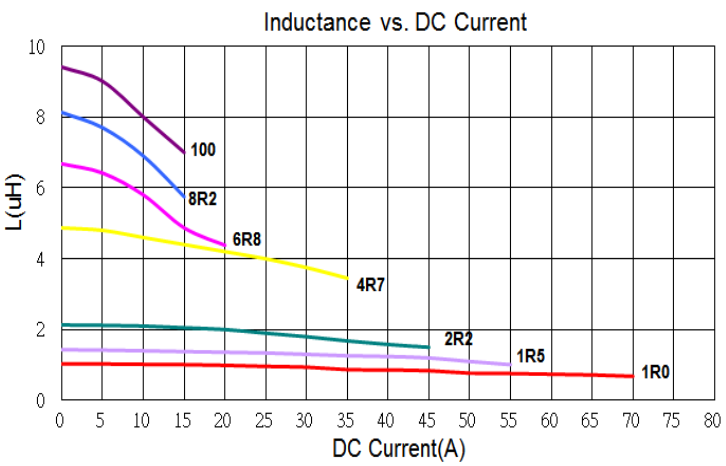

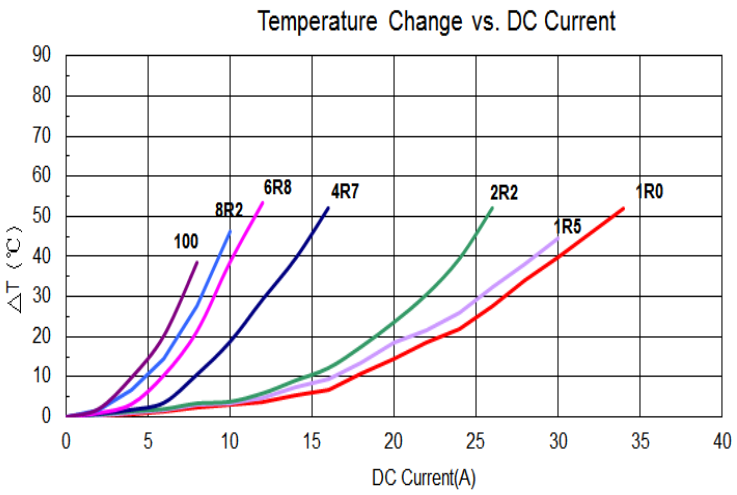

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00111010R47M00	0.47	20	100/1V	1.15	50	35.5	R47
BP3Y00111010R68M00	0.68	20	100/1V	1.42	45	33	R68
BP3Y001110101R0M00	1.0	20	100/1V	2.45	43	27	1R0
BP3Y001110101R5M00	1.5	20	100/1V	3.43	38	22	1R5
BP3Y001110102R2M00	2.2	20	100/1V	4.85	33	20	2R2
BP3Y001110103R3M00	3.3	20	100/1V	6.8	21	17	3R3
BP3Y001110104R7M00	4.7	20	100/1V	9.2	19	15	4R7
BP3Y001110106R8M00	6.8	20	100/1V	14.0	16	11	6R8
BP3Y00111010100M00	10	20	100/1V	19.2	18	9.5	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
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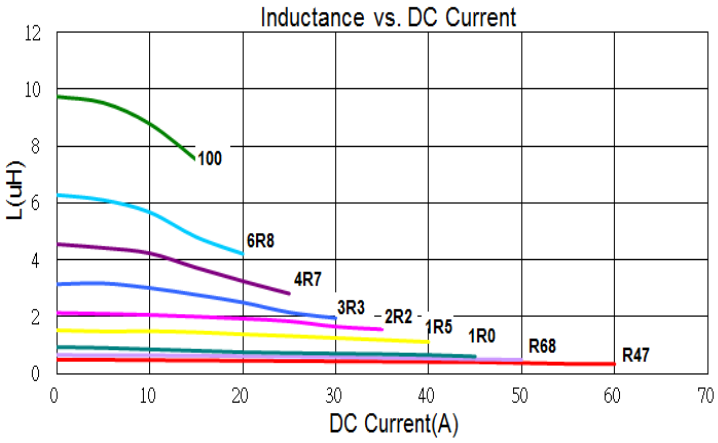

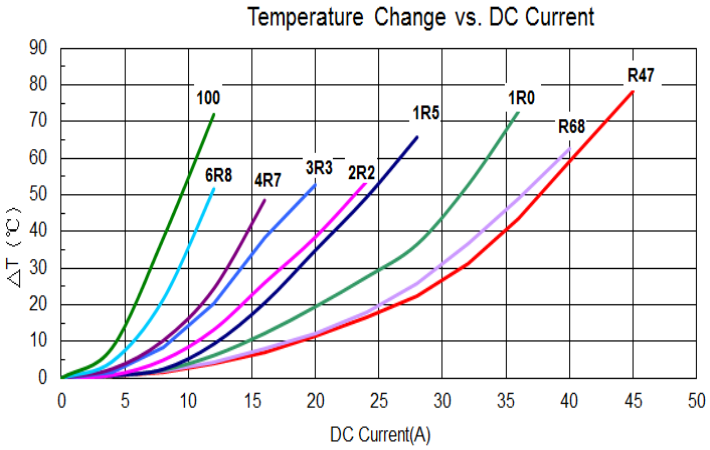

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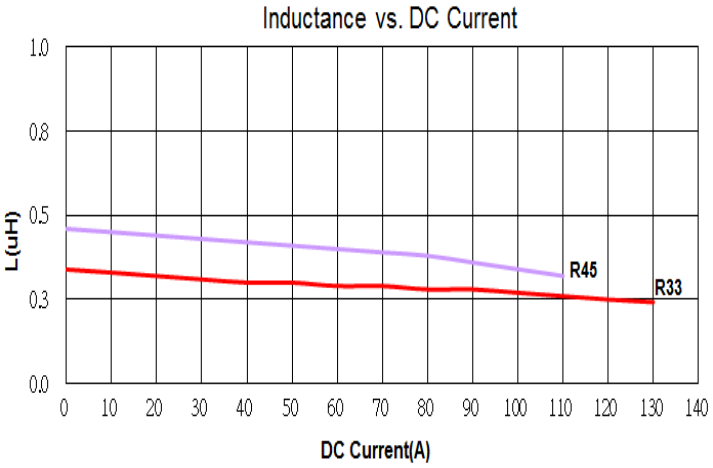
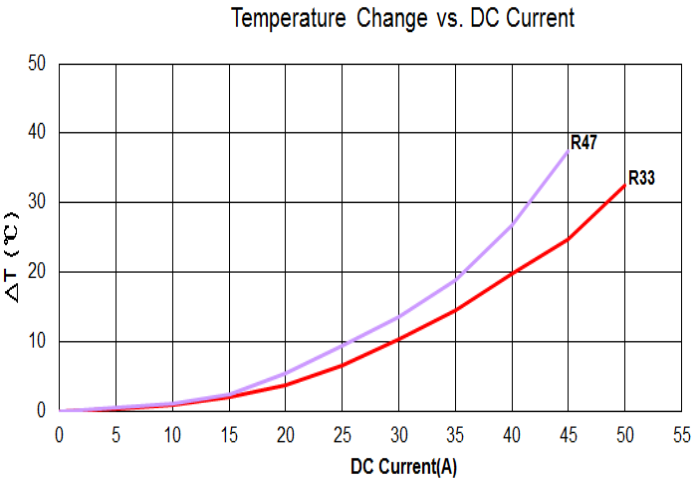
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00111110R33M00	0.33	20	100/1V	0.65	125	50	R33
BP3Y00111110R45M00	0.45	20	100/1V	0.75	100	46	R45

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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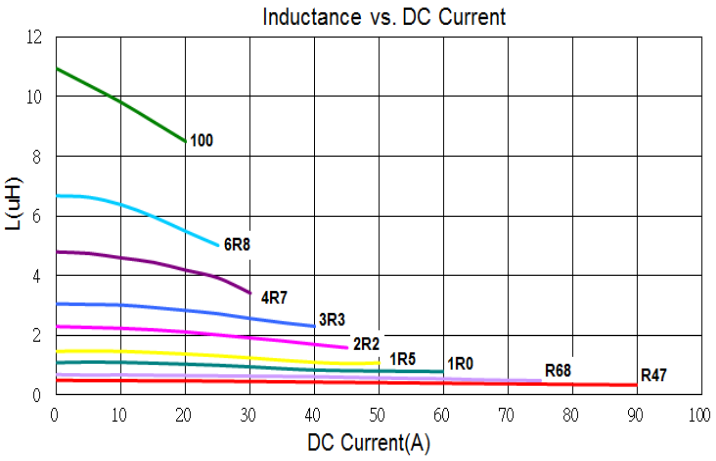
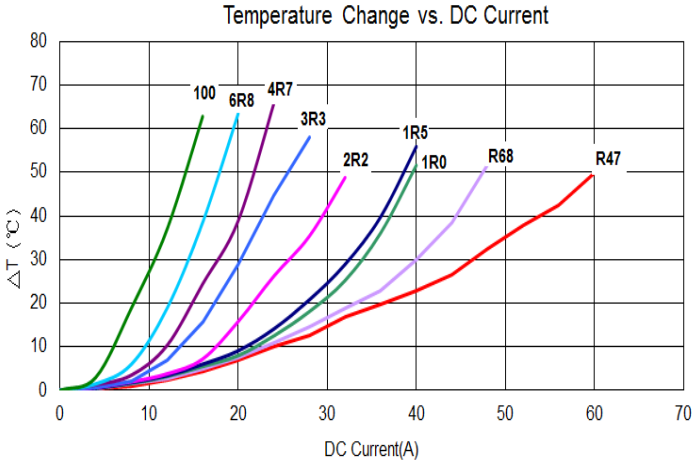
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00131210R47M00	0.47	20	100/1V	0.8	80	54	R47
BP3Y00131210R68M00	0.68	20	100/1V	1.1	75	45	R68
BP3Y001312101R0M00	1.0	20	100/1V	1.65	60	37	1R0
BP3Y001312101R5M00	1.5	20	100/1V	2.0	50	35.5	1R5
BP3Y001312102R2M00	2.2	20	100/1V	2.95	42	29.5	2R2
BP3Y001312103R3M00	3.3	20	100/1V	4.1	40	23	3R3
BP3Y001312104R7M00	4.7	20	100/1V	6.5	30	19	4R7
BP3Y001312106R8M00	6.8	20	100/1V	8.8	26	16	6R8
BP3Y00131210100M00	10	20	100/1V	14.0	23	12	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y001515101R0M00	1.0	20	100/1V	1.8	100	44	1R0
BP3Y001515101R5M00	1.5	20	100/1V	2.1	95	38	1R5
BP3Y001515102R2M00	2.2	20	100/1V	2.7	70	36	2R2
BP3Y001515103R3M00	3.3	20	100/1V	3.5	50	32	3R3
BP3Y001515104R7M00	4.7	20	100/1V	5.2	45	28	4R7
BP3Y001515106R8M00	6.8	20	100/1V	6.0	38	26	6R8
BP3Y001515108R2M00	8.2	20	100/1V	7.2	34	24	8R2
BP3Y00151510100M00	10	20	100/1V	8.5	32	21	100
BP3Y00151510150M00	15	20	100/1V	11.5	30	18	150
BP3Y00151510220M00	22	20	100/1V	16.8	24	14	220
BP3Y00151511270M00	27	20	100/1V	26.5	23	11	270
BP3Y00151511330M00	33	20	100/1V	28	19	10	330
BP3Y00151513470M00	47	20	100/1V	38	17	9	470
BP3Y00151513680M00	68	20	100/1V	61	16	7	680

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

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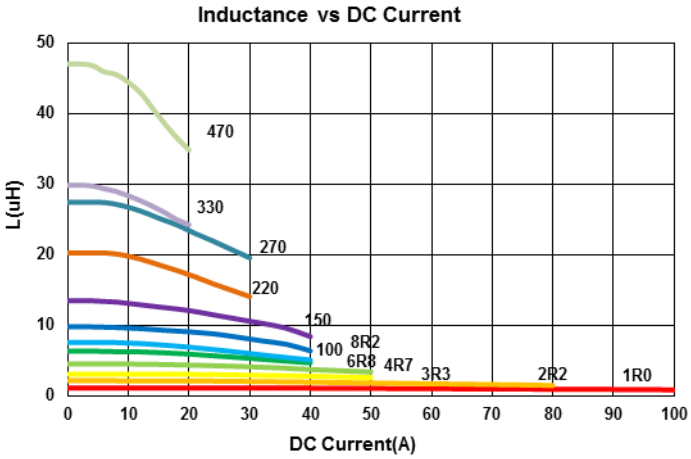

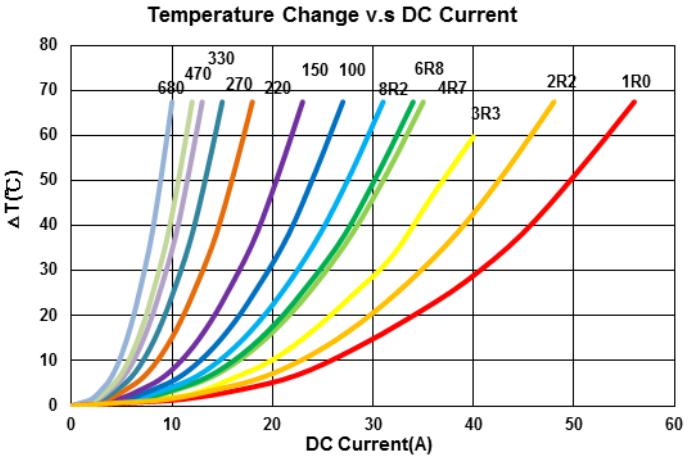

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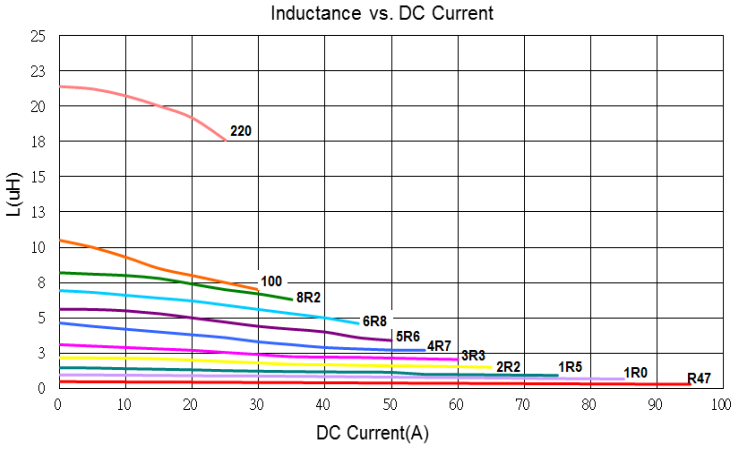
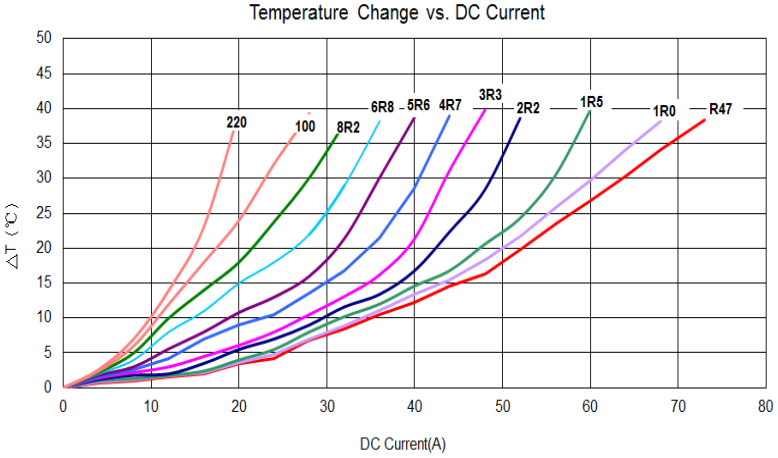
Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ)Max	Isat (A)Typ	Irms (A)Typ	Marking
BP3Y00202015R47M00	0.47	20	100/1V	0.6	93	73	R47
BP3Y002020151R0M00	1.0	20	100/1V	0.7	62	68	1R0
BP3Y002020151R5M00	1.5	20	100/1V	1.0	50	58	1R5
BP3Y002020152R2M00	2.2	20	100/1V	1.3	48	53	2R2
BP3Y002020153R3M00	3.3	20	100/1V	1.6	33	47	3R3
BP3Y002020154R7M00	4.7	20	100/1V	2.2	30	42	4R7
BP3Y002020155R6M00	5.6	20	100/1V	3.0	28	40	5R6
BP3Y002020156R8M00	6.8	20	100/1V	3.8	25	35	6R8
BP3Y002020158R2M00	8.2	20	100/1V	4.3	23	30	8R2
BP3Y00202015100M00	10	20	100/1V	4.8	20	26	100
BP3Y00202015220M00	22	20	100/1V	9.0	11	18	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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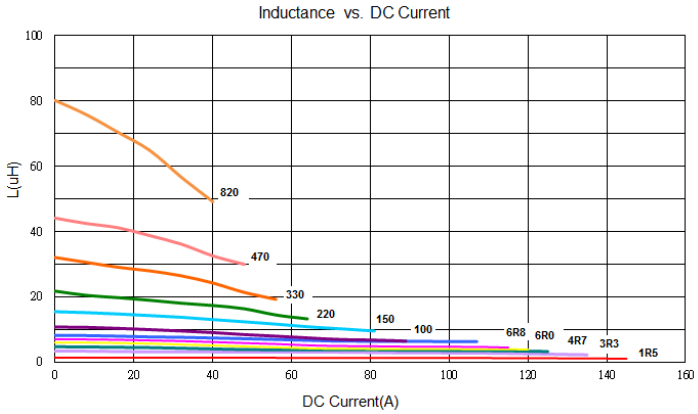
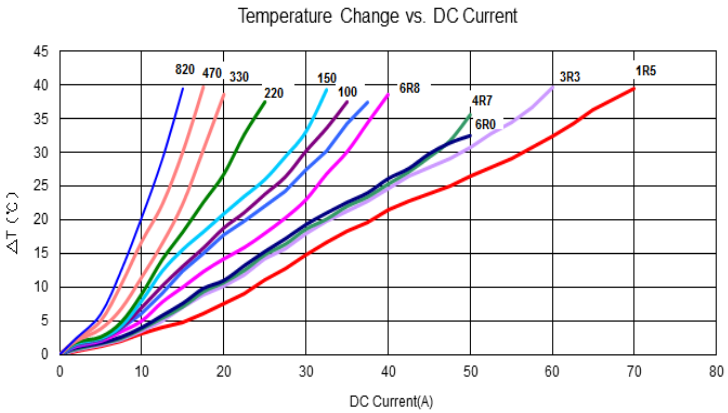
BP3Y002828161R5M00	1.5	20	100/1V	1.0	145	70	1R5
BP3Y002828163R3M00	3.3	20	100/1V	1.5	125	58	3R3
BP3Y002828164R7M00	4.7	20	100/1V	1.9	100	50	4R7
BP3Y002828166R0M00	6.0	20	100/1V	2.0	60	50	6R0
BP3Y002828166R8M00	6.8	20	100/1V	3.0	70	40	6R8
BP3Y002828168R2M00	8.2	20	100/1V	4.0	85	40	8R2
BP3Y00282816100M00	10	20	100/1V	5.5	62	37	100
BP3Y00282816150M00	15	20	100/1V	7.5	55	32	150
BP3Y00282816220M00	22	20	100/1V	11.5	45	25	220
BP3Y00282816330M00	33	20	100/1V	16	44	20	330
BP3Y00282816470M00	47	20	100/1V	24	35	18	470
BP3Y00282816820M00	82	20	100/1V	28	18	16	820

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－55℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient with current





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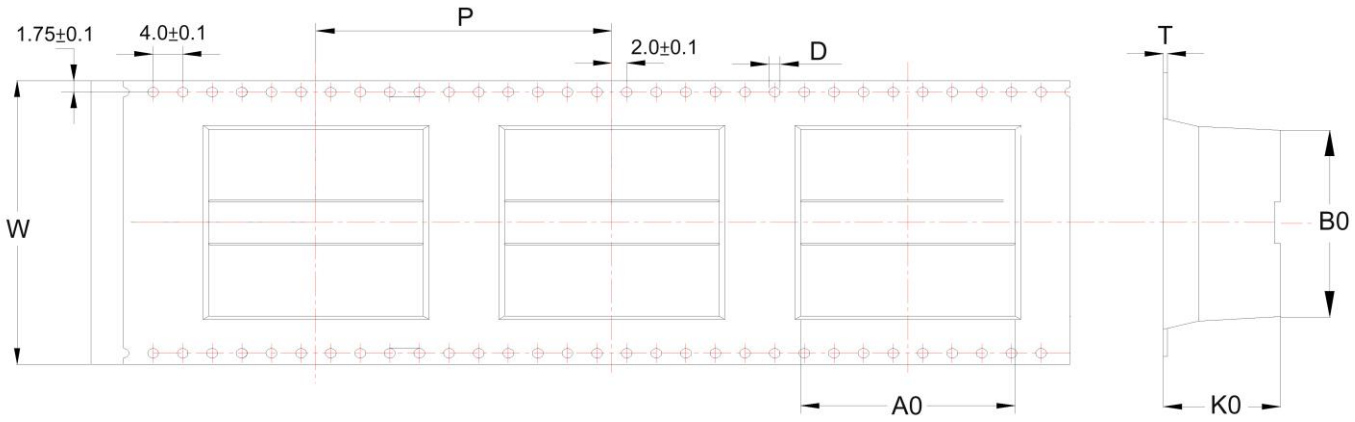
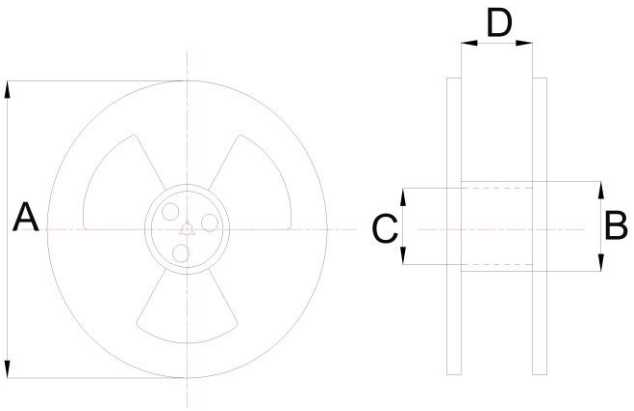
Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	A0	B0	K0	D	W	T	P	A	B	C	D	PCS / REEL
BP3Y00080807	8.8	9.7	9.0	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00100609	12.1	8.1	10.3	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00101010	11.8	11.8	10.0	1.5	24	0.5	20	330	100	13.5	24.5	250
BP3Y00110809	12.1	8.1	10.3	1.5	24	0.5	16	330	100	13.5	24.5	350
BP3Y00111010	11.8	11.8	10.0	1.5	24	0.5	20	330	100	13.5	24.5	250
BP3Y00111110	13.0	12.2	12.0	1.5	24	0.5	20	330	100	13.5	24.5	200
BP3Y00131210	13.2	15.1	10.6	1.5	24	0.5	16	330	100	13.5	24.5	250
BP3Y00151510	15.7	15.1	10.7	1.5	24	0.5	24	330	100	13.5	24.5	150
BP3Y00151511	15.7	15.1	11.7	1.5	24	0.5	24	330	100	13.5	24.5	100
BP3Y00151513	15.7	15.1	13.7	1.5	24	0.5	24	330	100	13.5	24.5	100
BP3Y00202015	21.2	20.8	14.8	1.5	32	0.5	32	330	100	13.5	32.0	100
BP3Y00282816	29.2	29.2	15	1.5	44	0.5	40	330	100	13.5	44.5	30

BPSC Series

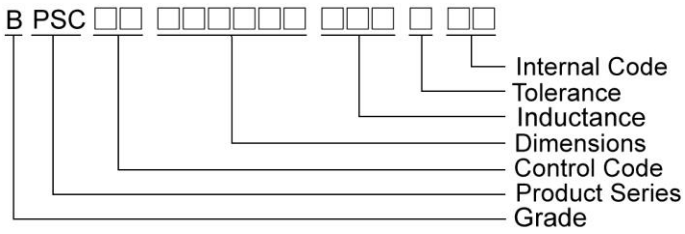
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

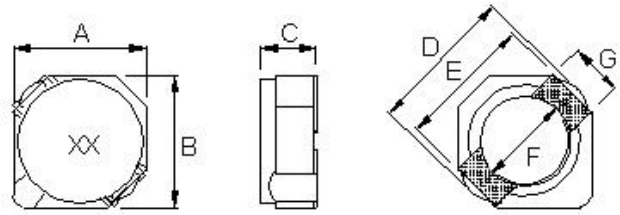
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

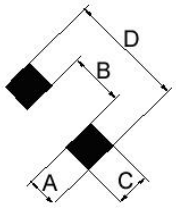


Shape and Dimensions

BPSC00030312/030316/030320



Recommended Pattern

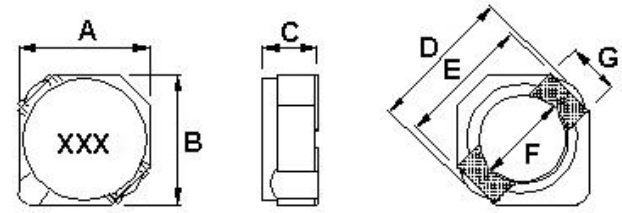


Dimension in mm

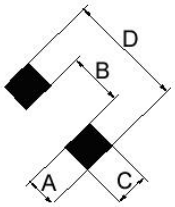
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00030316	3.2^{+0}	3.2^{+0}	1.55^{+0}	4.5^{+0}	3.3	2.1	1.0	1.3	1.7	1.3	4.3
BPSC00303020	3.2^{+0}	3.2^{+0}	2.0^{+0}	4.5^{+0}	3.3	2.1	1.0	1.3	1.7	1.3	4.3

Shape and Dimensions

BPSC00040412



Recommended Pattern



Dimension in mm

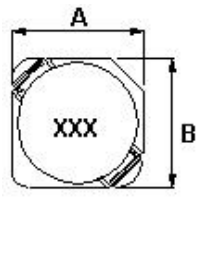
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040412	4^{+0}	4^{+0}	1.2^{+0}	5.2^{+0}	4.4	2.8	1.1	1.4	2.4	1.5	5.2

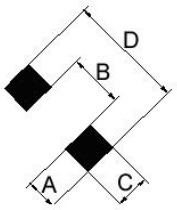
SMD Shielded Power Inductors - BPSC Series

Shape and Dimensions

Recommended Pattern

BPSC00040418





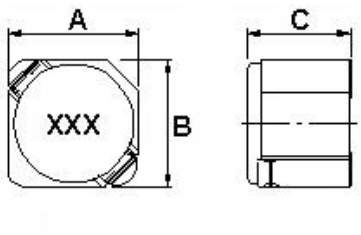
Dimensions in mm

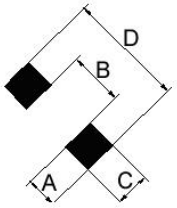
TYPE	Shape and Dimensions							Recommended Pattern			
	A	B	C	D	E	F	G	A	B	C	D
BPSC00040418	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	4.4Typ	1.4^{+0}	1.1Typ	1.4	2.4	1.5	5.2

Shape and Dimensions

Recommended Pattern

BPSC00404030





Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSC00404030	4^{+0}	4^{+0}	3^{+0}	4.4	2.8	1.1	1.4	2.4	1.5	5.2

Pulse a YAGEO company
CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00030316R47□00	0.47	30	100 kHz,1 V	0.04	2.00(2.80)		AO
BPSC000303161R5□00	1.5	30	100 kHz,1 V	0.063	1.40(1.80)	2	BF
BPSC000303161R8□00	1.8	30	100 kHz,1 V	0.075	1.30(1.70)	1.8	BI
BPSC000303162R2□00	2.2	30	100 kHz,1 V	0.094	1.20(1.60)	1.6	CC
BPSC000303162R7□00	2.7	30	100 kHz,1 V	0.106	1.10(1.40)	1.4	CH
BPSC000303163R3□00	3.3	30	100 kHz,1 V	0.125	0.95(1.20)	1.24	DD
BPSC000303163R9□00	3.9	30	100 kHz,1 V	0.138	0.92(1.10)	1.12	DJ
BPSC000303164R1□00	4.1	20,30	100 kHz,1 V	0.169	0.80(1.00)	1	EA
BPSC000303164R7□00	4.7	20,30	100 kHz,1 V	0.169	0.80(1.00)	1	EH
BPSC000303165R6□00	5.6	20,30	100 kHz,1 V	0.188	0.76(0.95)	0.98	FG
BPSC000303166R8□00	6.8	20,30	100 kHz,1 V	0.213	0.71(0.88)	0.92	GI
BPSC000303168R2□00	8.2	20,30	100 kHz,1 V	0.281	0.64(0.80)	0.8	IC
BPSC00030316100□00	10	20,30	100 kHz,1 V	0.294	0.57(0.72)	0.76	KA
BPSC00030316120□00	12	20,30	100 kHz,1 V	0.394	0.52(0.65)	0.64	QA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303202R2□LD	2.2	20,30	100 kHz,1V	0.041	0.85(1.10)	2.3	CC
BPSC000303203R3□LD	3.3	20,30	100 kHz,1V	0.054	0.75(0.95)	2.1	DD
BPSC000303204R7□LD	4.7	20,30	100 kHz,1V	0.078	0.63(0.78)	1.65	EH
BPSC000303206R8□LD	6.8	20,30	100 kHz,1V	0.106	0.52(0.65)	1.32	GI
BPSC00030320100□LD	10	20,30	100 kHz,1V	0.18	0.43(0.53)	1	KA
BPSC00030320150□LD	15	20,30	100 kHz,1V	0.22	0.35(0.45)	0.8	MA
BPSC00030320220□LD	22	20,30	100 kHz,1V	0.32	0.30(0.36)	0.68	LA
BPSC00030320330□LD	33	20,30	100 kHz,1V	0.46	0.24(0.31)	0.56	NA
BPSC00030320390□LD	39	20,30	100 kHz,1V	0.6	0.21(0.28)		PA
BPSC00030320470□LD	47	20,30	100 kHz,1V	0.66	0.19(0.24)	0.48	OA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000303201R5□HP	1.5	30	100kHz,1V	0.05	1.90(2.40)	2.2	BF
BPSC000303201R7□HP	1.7	20,30	100kHz,1V	0.05	1.85(2.40)	2.2	BH
BPSC000303202R2□HP	2.2	20,30	100kHz,1V	0.06	1.60(2.30)	1.9	CC
BPSC000303203R3□HP	3.3	20,30	100kHz,1V	0.097	1.45(1.80)	1.55	DD
BPSC000303204R7□HP	4.7	20,30	100kHz,1V	0.14	1.00(1.50)	1.2	EH
BPSC000303206R3□HP	6.3	20,30	100kHz,1V	0.18	0.96(1.30)	1.15	GD
BPSC000303206R8□HP	6.8	20,30	100kHz,1V	0.195	0.95(1.20)	1.1	GI
BPSC00030320100□HP	10	20,30	100kHz,1V	0.285	0.85(1.00)	0.9	KA
BPSC00030320150□HP	15	20,30	100kHz,1V	0.41	0.67(0.83)	0.64	MA
BPSC00030320220□HP	22	20,30	100kHz,1V	0.65	0.50(0.67)	0.6	LA

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404122R7□00	2.7	30	100 kHz,1 V	0.078	0.53	1.82	2R7
BPSC000404124R7□00	4.7	20,30	100 kHz,1 V	0.123	0.4	1.38	4R7
BPSC000404126R8□00	6.8	30	100 kHz,1 V	0.18	0.34	1.05	6R8
BPSC000404128R2□00	8.2	30	100 kHz,1 V	0.204	0.32	0.93	8R2
BPSC00040412100□00	10	20,30	100 kHz,1 V	0.24	0.28	0.9	100
BPSC00040412120□00	12	20,30	100 kHz,1 V	0.276	0.25	0.81	120
BPSC00040412150□00	15	20,30	100 kHz,1 V	0.372	0.23	0.68	150
BPSC00040412180□00	18	20,30	100 kHz,1 V	0.468	0.21	0.58	180
BPSC00040412220□00	22	20,30	100 kHz,1 V	0.54	0.19	0.53	220
BPSC00040412270□00	27	20,30	100 kHz,1 V	0.726	0.17	0.48	270
BPSC00040412330□00	33	20,30	100 kHz,1 V	0.822	0.15	0.41	330
BPSC00040412390□00	39	20,30	100 kHz,1 V	0.942	0.14	0.4	390

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040412R60□HP	0.6	30	100 kHz,1 V	0.059	2.9	1.8	R60
BPSC000404121R2□HP	1.2	30	100 kHz,1 V	0.082	2	1.7	1R2
BPSC000404121R5□HP	1.5	30	100 kHz,1 V	0.104	1.85	1.45	1R5
BPSC000404122R2□HP	2.2	30	100 kHz,1 V	0.143	1.6	1.15	2R2
BPSC000404123R3□HP	3.3	30	100 kHz,1 V	0.182	1.25	0.95	3R3
BPSC000404124R7□HP	4.7	30	100 kHz,1 V	0.2	1.2	0.9	4R7
BPSC000404126R8□HP	6.8	30	100 kHz,1 V	0.377	0.85	0.7	6R8
BPSC00040412100□HP	10	20,30	100 kHz,1 V	0.413	0.8	0.6	100
BPSC00040412120□HP	12	20,30	100 kHz,1 V	0.585	0.64	0.48	120
BPSC00040412150□HP	15	20,30	100 kHz,1 V	0.653	0.58	0.45	150
BPSC00040412180□HP	18	20,30	100 kHz,1 V	0.888	0.52	0.4	180
BPSC00040412220□HP	22	20,30	100 kHz,1 V	0.925	0.53	0.33	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Marking
BPSC000404181R0□S1	1.0	30	100kHz,0.1V	0.04	1.6	1R0
BPSC000404181R5□S1	1.5	30	100kHz,0.1V	0.052	1.55	1R5
BPSC000404182R2□S1	2.2	30	100kHz,0.1V	0.072	1.2	2R2
BPSC000404183R3□S1	3.3	30	100kHz,0.1V	0.085	1.1	3R3
BPSC000404184R7□S1	4.7	20,30	100kHz,0.1V	0.105	0.9	4R7
BPSC000404185R6□S1	5.6	30	100kHz,0.1V	0.135	0.8	5R6
BPSC000404186R8□S1	6.8	20,30	100kHz,0.1V	0.17	0.73	6R8
BPSC000404188R2□S1	8.2	20,30	100kHz,0.1V	0.21	0.55	8R2
BPSC00040418100□S1	10	20,30	100kHz,0.1V	0.21	0.55	100
BPSC00040418150□S1	15	30	100kHz,0.1V	0.295	0.45	150
BPSC00040418220□S1	22	20,30	100kHz,0.1V	0.43	0.4	220
BPSC00040418330□S1	33	30	100kHz,0.1V	0.675	0.32	330
BPSC00040418101□S1	100	30	100kHz,0.1V	2.75	0.13	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current : DC current that will cause L drop approximately 35% over its nominal value or DC current cause the temperature rising approximately 40℃,whichever is lower.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC000404301R0□00	1.0	30	100 kHz,1 V	0.045	2.8	2.5	1R0
BPSC000404303R3□00	3.3	30	100 kHz,1 V	0.0721	2	1.85	3R3
BPSC000404304R7□00	4.7	30	100 kHz,1 V	0.0883	1.65	1.62	4R7
BPSC000404306R8□00	6.8	30	100 kHz,1 V	0.119	1.24	1.32	6R8
BPSC00040430100□00	10	30	100 kHz,1 V	0.145	1.05	1.18	100
BPSC00040430150□00	15	30	100 kHz,1 V	0.213	0.9	1.02	150
BPSC00040430220□00	22	30	100 kHz,1 V	0.335	0.76	0.74	220
BPSC00040430330□00	33	30	100 kHz,1 V	0.481	0.58	0.63	330
BPSC00040430470□00	47	20,30	100 kHz,1 V	0.599	0.48	0.56	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Rated Current (A)	Irms (A)Typ.	Marking
BPSC00040430100□LD	10	30	100 kHz,1 V	0.095	0.5	1.52	100
BPSC00040430120□LD	12	30	100 kHz,1 V	0.1	0.45	1.48	120
BPSC00040430150□LD	15	30	100 kHz,1 V	0.115	0.4	1.44	150
BPSC00040430180□LD	18	30	100 kHz,1 V	0.125	0.35	1.37	180
BPSC00040430220□LD	22	30	100 kHz,1 V	0.145	0.33	1.28	220
BPSC00040430270□LD	27	30	100 kHz,1 V	0.175	0.29	1.18	270
BPSC00040430330□LD	33	30	100 kHz,1 V	0.215	0.28	1.15	330
BPSC00040430390□LD	39	30	100 kHz,1 V	0.225	0.25	1	390
BPSC00040430470□LD	47	30	100 kHz,1 V	0.305	0.23	0.81	470
BPSC00040430560□LD	56	30	100 kHz,1 V	0.325	0.2	0.76	560
BPSC00040430680□LD	68	30	100 kHz,1 V	0.47	0.185	0.6	680
BPSC00040430820□LD	82	30	100 kHz,1 V	0.54	0.172	0.58	820
BPSC00040430101□LD	100	30	100 kHz,1 V	0.61	0.16	0.52	101
BPSC00040430121□LD	120	30	100 kHz,1 V	0.755	0.136	0.5	121
BPSC00040430151□LD	150	30	100 kHz,1 V	0.88	0.124	0.48	151
BPSC00040430181□LD	180	30	100 kHz,1 V	1.13	0.119	0.42	181
BPSC00040430221□LD	220	30	100 kHz,1 V	1.27	0.116	0.36	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Rated current：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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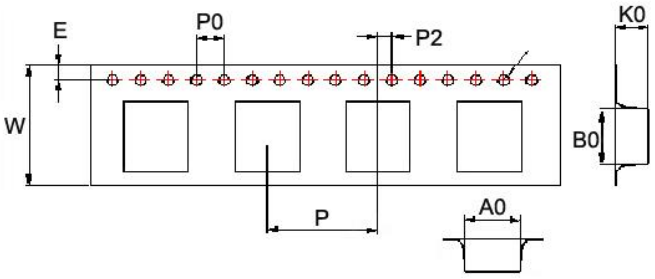
Pulse a YAGEO company

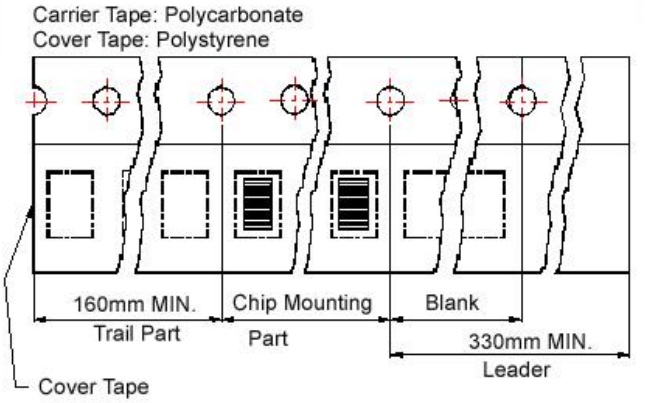
CHILISIN ELECTRONICS CORP.

Packaging Specifications

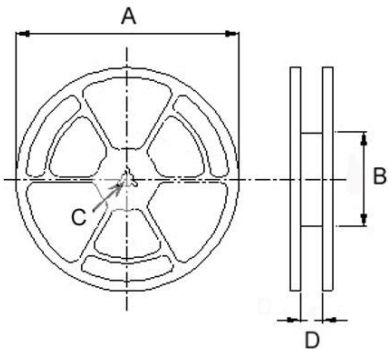
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00030316	3.35	3.35	1.7	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00030320	3.5	3.5	2.1	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040412	4.2	4.2	1.5	1.55	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040418	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00040430	4.2	4.2	3.2	1.55	1.75	12	8	4	2	178	60	13	13.2	500

BPSC Series

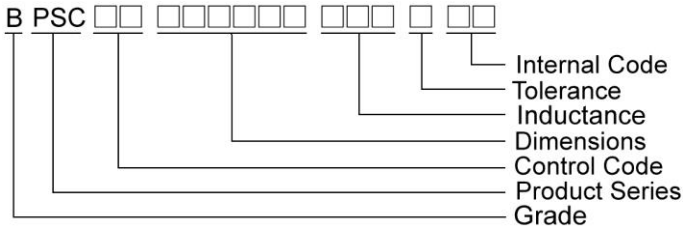
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

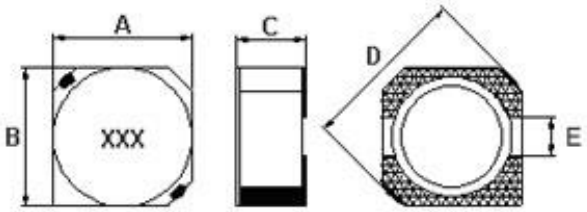
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Product Identification

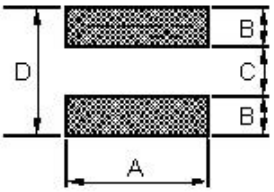


Shape and Dimensions

BPSC00040418



Recommended Pattern

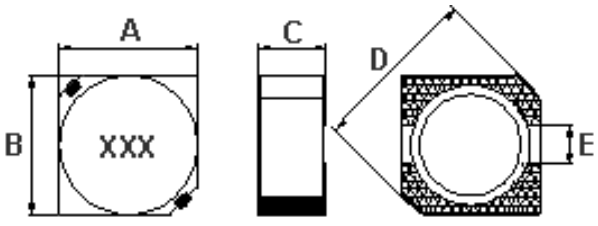


Dimensions in mm

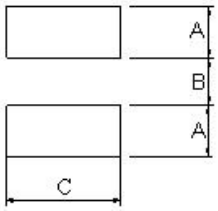
TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPSC00404018	4^{+0}	4^{+0}	1.8^{+0}	5.2^{+0}	1.0	4.6	1.6	1.4	4.6

Shape and Dimensions

BPSC00050520~050540



Recommended Pattern



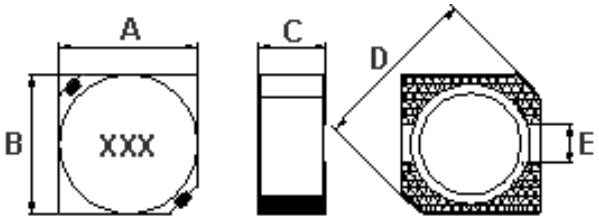
Dimension in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00050520	4.7±0.3	4.7±0.3	2.0^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3
BPSC00050530	4.7±0.3	4.7±0.3	3.0^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3
BPSC00050540	4.7±0.3	4.7±0.3	4^{+0}	6.9^{+0}	1.5	1.9	1.5	5.3

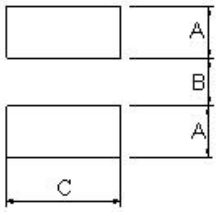
SMD Shielded Power Inductors - BPSC Series

Shape and Dimensions

BPSC00060620~070740



Recommended Pattern



Dimension in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00060620	5.7±0.3	5.7±0.3	2.0^{+0}	8.2^{+0}	2.0	2.15	2.0	6.3
BPSC00060630	5.7±0.3	5.7±0.3	3.0^{+0}	8.2^{+0}	2.0	2.15	2.0	6.3
BPSC00070730	6.7±0.3	6.7±0.3	3.0^{+0}	9.5^{+0}	2.0	2.65	2.0	7.3
BPSC00070740	7^{+0}	7^{+0}	4^{+0}	9.5^{+0}	2.0	2.65	2.0	7.3

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000404181R0□S0	1.0	30	100 kHz,0.1 V	0.04	1.35(1.70)	1R0
BPSC000404181R5□S0	1.5	30	100 kHz,0.1 V	0.052	1.25(1.60)	1R5
BPSC000404182R2□S0	2.2	30	100 kHz,0.1 V	0.072	1.00(1.30)	2R2
BPSC000404183R3□S0	3.3	20,30	100 kHz,0.1 V	0.085	0.88(1.10)	3R3
BPSC000404183R6□S0	3.6	30	100 kHz,0.1 V	0.09	0.74(0.93)	3R6
BPSC000404184R7□S0	4.7	20,30	100 kHz,0.1 V	0.105	0.72(0.90)	4R7
BPSC000404186R8□S0	6.8	20,30	100 kHz,0.1 V	0.17	0.61(0.74)	6R8
BPSC00040418100□S0	10	20,30	100 kHz,0.1 V	0.21	0.55(0.60)	100
BPSC00040418150□S0	15	20,30	100 kHz,0.1 V	0.295	0.45(0.52)	150
BPSC00040418220□S0	22	20,30	100 kHz,0.1 V	0.43	0.32(0.40)	220
BPSC00040418270□S0	27	30	100 kHz,0.1 V	0.62	0.30(0.37)	270
BPSC00040418330□S0	33	30	100 kHz,0.1 V	0.675	0.26(0.32)	330
BPSC00040418680□S0	68	30	100 kHz,0.1 V	1.7	0.16(0.21)	680

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505201R0□S0	1	30	7.96 MHz,1 V	0.045	1.72(2.50)	1R0
BPSC00050520R5□S0	1.5	30	7.96 MHz,1 V	0.06	1.50(1.80)	1R5
BPSC000505201R8□S0	1.8	30	7.96 MHz,1 V	0.07	1.35(1.70)	1R8
BPSC000505202R2□S0	2.2	20,30	7.96 MHz,1 V	0.075	1.30(1.60)	2R2
BPSC000505202R7□S0	2.7	30	7.96 MHz,1 V	0.105	1.20(1.50)	2R7
BPSC000505203R3□S0	3.3	20,30	7.96 MHz,1 V	0.11	1.04(1.30)	3R3
BPSC000505203R9□S0	3.9	30	7.96 MHz,1 V	0.155	0.88(1.20)	3R9
BPSC000505204R7□S0	4.7	30	7.96 MHz,1 V	0.162	0.84(1.10)	4R7
BPSC000505205R6□S0	5.6	30	7.96 MHz,1 V	0.17	0.80(1.00)	5R6
BPSC000505206R3□S0	6.3	30	7.96 MHz,1 V	0.18	0.78(0.95)	6R3
BPSC000505206R8□S0	6.8	20,30	7.96 MHz,1 V	0.2	0.76(0.85)	6R8
BPSC000505208R2□S0	8.2	30	7.96 MHz,1 V	0.245	0.68(0.80)	8R2
BPSC00050520100□S0	10	20,30	100 kHz,1 V	0.28	0.61(0.75)	100
BPSC00050520120□S0	12	30	100 kHz,1 V	0.32	0.56(0.70)	120
BPSC00050520150□S0	15	30	100 kHz,1 V	0.36	0.50(0.65)	150
BPSC00050520180□S0	18	30	100 kHz,1 V	0.4	0.48(0.60)	180
BPSC00050520220□S0	22	20,30	100 kHz,1 V	0.48	0.41(0.55)	220
BPSC00050520270□S0	27	30	100 kHz,1 V	0.57	0.35(0.50)	270
BPSC00050520330□S0	33	30	100 kHz,1 V	0.694	0.32(0.45)	330
BPSC00050520390□S0	39	30	100 kHz,1 V	0.8	0.30(0.40)	390
BPSC00050520470□S0	47	30	100 kHz,1 V	0.95	0.28(0.38)	470
BPSC00050520560□S0	56	30	100 kHz,1 V	1.08	0.26(0.35)	560
BPSC00050520680□S0	68	30	100 kHz,1 V	1.3	0.24(0.34)	680
BPSC00050520101□S0	100	20,30	100 kHz,1 V	2	0.20(0.30)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000505301R2□S0	1.2	30	100 kHz,1 V	0.0236	2.56(4.10)	1R2
BPSC000505301R8□S0	1.8	30	100 kHz,1 V	0.035	2.20(3.20)	1R8
BPSC000505302R0□S0	2.0	30	100 kHz,1 V	0.030	2.10(3.00)	2R0
BPSC000505302R2□S0	2.2	20,30	100 kHz,1 V	0.0313	2.04(2.90)	2R2
BPSC000505302R7□S0	2.7	30	100 kHz,1 V	0.0433	1.60(2.80)	2R7
BPSC000505303R3□S0	3.3	30	100 kHz,1 V	0.0492	1.57(2.30)	3R3
BPSC000505303R9□S0	3.9	30	100 kHz,1 V	0.0648	1.44(2.10)	3R9
BPSC000505304R7□S0	4.7	20,30	100 kHz,1 V	0.072	1.32(2.00)	4R7
BPSC000505305R6□S0	5.6	30	100 kHz,1 V	0.1009	1.17(1.70)	5R6
BPSC000505306R8□S0	6.8	20,30	100 kHz,1 V	0.1089	1.12(1.60)	6R8
BPSC000505308R2□S0	8.2	30	100 kHz,1 V	0.1175	1.04(1.50)	8R2
BPSC00050530100□S0	10	30	100 kHz,1 V	0.1283	1.00(1.30)	100
BPSC00050530120□S0	12	20,30	100 kHz,1 V	0.1316	0.84(1.10)	120
BPSC00050530150□S0	15	30	100 kHz,1 V	0.149	0.76(1.00)	150
BPSC00050530180□S0	18	30	100 kHz,1 V	0.166	0.72(0.99)	180
BPSC00050530220□S0	22	20,30	100 kHz,1 V	0.235	0.70(0.93)	220
BPSC00050530270□S0	27	30	100 kHz,1 V	0.261	0.58(0.83)	270
BPSC00050530330□S0	33	20,30	100 kHz,1 V	0.3313	0.56(0.64)	330
BPSC00050530390□S0	39	20,30	100 kHz,1 V	0.3837	0.50(0.70)	390
BPSC00050530470□S0	47	20,30	100 kHz,1 V	0.587	0.48(0.61)	470
BPSC00050530560□S0	56	30	100 kHz,1 V	0.6245	0.41(0.54)	560
BPSC00050530680□S0	68	30	100 kHz,1 V	0.699	0.35(0.49)	680
BPSC00050530820□S0	82	30	100 kHz,1 V	0.9148	0.32(0.49)	820
BPSC00050530101□S0	100	20,30	100 kHz,1 V	1.02	0.29(0.45)	101
BPSC00050530121□S0	120	30	100 kHz,1 V	1.27	0.27(0.40)	121
BPSC00050530151□S0	150	30	100 kHz,1 V	1.35	0.24(0.34)	151
BPSC00050530181□S0	180	30	100 kHz,1 V	1.54	0.22(0.32)	181
BPSC00050530221□S0	220	30	100 kHz,1 V	2	0.20(0.29)	221
BPSC00050530331□S0	330	20,30	100 kHz,1 V	3.4	0.19(0.24)	331
BPSC00050530391□S0	390	20,30	100 kHz,1 V	3.56	0.18(0.22)	391
BPSC00050530681□S0	680	20,30	100 kHz,1 V	5.2	0.10(0.17)	681

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC000505402R2□S0	2.2	30	100 kHz,1V	0.033	3.5(4.6)	4.3	2R2
BPSC000505403R3□S0	3.3	30	100 kHz,1V	0.039	2.7(3.4)	3.6	3R3
BPSC000505404R7□S0	4.7	20,30	100 kHz,1V	0.053	2.4(3.0)	3	4R7
BPSC000505406R8□S0	6.8	20,30	100 kHz,1V	0.06	2.0(2.6)	2.8	6R8
BPSC00050540100□S0	10	20,30	100 kHz,1V	0.15	1.5(2.0)	1.6	100
BPSC00050540150□S0	15	20,30	100 kHz,1V	0.21	1.2(1.6)	1.35	150
BPSC00050540220□S0	22	20,30	100 kHz,1V	0.27	1.0(1.4)	1	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606201R0□S0	1.0	30	10 kHz,1 V	0.038	1.00(3.50)	1R0
BPSC000606201R5□S0	1.5	30	10 kHz,1 V	0.038	2.50(3.00)	1R5
BPSC000606202R0□S0	2.0	30	10 kHz,1 V	0.045	2.10(2.60)	2R0
BPSC000606202R2□S0	2.2	30	10 kHz,1 V	0.048	2.00(2.50)	2R2
BPSC000606203R3□S0	3.3	30	10 kHz,1 V	0.056	1.70(2.00)	3R3
BPSC000606204R1□S0	4.1	30	10 kHz,1 V	0.057	1.55(1.90)	4R1
BPSC000606204R7□S0	4.7	20,30	10 kHz,1 V	0.076	1.35(1.70)	4R7
BPSC000606205R4□S0	5.4	30	10 kHz,1 V	0.076	1.20(1.50)	5R4
BPSC000606206R2□S0	6.2	30	10 kHz,1 V	0.096	1.10(1.40)	6R2
BPSC000606206R8□S0	6.8	30	10 kHz,1 V	0.1	1.00(1.30)	6R8
BPSC000606208R9□S0	8.9	30	10 kHz,1 V	0.116	0.95(1.25)	8R9
BPSC00060620100□S0	10	20,30	10 kHz,1 V	0.124	0.90(1.20)	100
BPSC00060620120□S0	12	30	10 kHz,1 V	0.153	0.90(1.00)	120
BPSC00060620150□S0	15	20,30	10 kHz,1 V	0.196	0.80(0.91)	150
BPSC00060620180□S0	18	30	10 kHz,1 V	0.21	0.75(0.90)	180
BPSC00060620220□S0	22	20,30	10 kHz,1 V	0.29	0.65(0.80)	220
BPSC00060620270□S0	27	30	10 kHz,1 V	0.33	0.60(0.70)	270
BPSC00060620330□S0	33	20,30	10 kHz,1 V	0.386	0.55(0.65)	330
BPSC00060620390□S0	39	30	10 KHz,1 V	0.52	0.48(0.60)	390
BPSC00060620470□S0	47	20,30	10 kHz,1 V	0.595	0.44(0.51)	470
BPSC00060620560□S0	56	30	10 kHz,1 V	0.665	0.40(0.50)	560
BPSC00060620680□S0	68	30	10 kHz,1 V	0.84	0.33(0.43)	680
BPSC00060620820□S0	82	30	10 kHz,1 V	0.978	0.30(0.41)	820
BPSC00060620101□S0	100	20,30	10 kHz,1 V	1.2	0.25(0.36)	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000606301R0□S0	1.0	30	10 kHz,1 V	0.015	3.50(4.20)	1R0
BPSC000606301R5□S0	1.5	30	10 kHz,1 V	0.015	2.80(3.70)	1R5
BPSC000606302R2□S0	2.2	30	10 kHz,1 V	0.018	2.40(3.10)	2R2
BPSC000606302R5□S0	2.5	30	10 kHz,1 V	0.022	2.30(2.70)	2R5
BPSC000606302R6□S0	2.6	30	10 kHz,1 V	0.022	2.20(2.60)	2R6
BPSC000606302R7□S0	2.7	30	10 kHz,1 V	0.024	2.20(2.60)	2R7
BPSC000606303R0□S0	3.0	30	10 kHz,1 V	0.024	2.20(2.50)	3R0
BPSC000606303R3□S0	3.3	30	10 kHz,1 V	0.027	2.10(2.50)	3R3
BPSC000606304R2□S0	4.2	30	10 kHz,1 V	0.031	2.00(2.20)	4R2
BPSC000606304R3□S0	4.3	30	10 kHz,1 V	0.041	1.80(2.10)	4R3
BPSC000606304R7□S0	4.7	20,30	10 kHz,1 V	0.038	1.60(2.00)	4R7
BPSC000606305R0□S0	5.0	30	10 kHz,1 V	0.038	1.50(1.90)	5R0
BPSC000606305R3□S0	5.3	20,30	10 kHz,1 V	0.038	1.50(1.90)	5R3
BPSC000606306R2□S0	6.2	20,30	10 kHz,1 V	0.045	1.20(1.80)	6R2
BPSC000606306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.20(1.60)	6R8
BPSC000606308R2□S0	8.2	20,30	10 kHz,1 V	0.053	1.00(1.50)	8R2
BPSC00060630100□S0	10	20,30	10 kHz,1 V	0.065	0.95(1.40)	100
BPSC00060630120□S0	12	20,30	10 kHz,1 V	0.076	0.90(1.30)	120
BPSC00060630150□S0	15	20,30	10 kHz,1 V	0.103	0.85(1.10)	150
BPSC00060630180□S0	18	30	10 kHz,1 V	0.11	0.80(1.00)	180
BPSC00060630220□S0	22	20,30	10 kHz,1 V	0.122	0.75(0.92)	220
BPSC00060630270□S0	27	30	10 kHz,1 V	0.175	0.65(0.82)	270
BPSC00060630330□S0	33	30	10 kHz,1 V	0.189	0.60(0.75)	330
BPSC00060630390□S0	39	30	10 kHz,1 V	0.212	0.55(0.70)	390
BPSC00060630470□S0	47	20,30	10 kHz,1 V	0.25	0.50(0.62)	470
BPSC00060630560□S0	56	30	10 kHz,1 V	0.305	0.48(0.59)	560
BPSC00060630680□S0	68	30	10 kHz,1 V	0.355	0.42(0.52)	680
BPSC00060630820□S0	82	30	10 kHz,1 V	0.463	0.39(0.46)	820

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- RDC test method: place testing device to the 2 solder ends of wounding and test the value.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC00060630101□S0	100	20,30	10 kHz,1 V	0.52	0.35(0.42)	101
BPSC00060630181□S0	180	30	10 kHz,1 V	1.05	0.21(0.31)	181
BPSC00060630221□S0	220	30	10 kHz,1 V	1.2	0.20(0.30)	221
BPSC00060630331□S0	330	20,30	10 kHz,1 V	1.7	0.15(0.24)	331
BPSC00060630391□S0	390	30	10 kHz,1 V	1.8	0.13(0.22)	391
BPSC00060630471□S0	470	20,30	10 kHz,1 V	2.5	0.11(0.21)	471
BPSC00060630561□S0	560	20,30	10 kHz,1 V	3.2	0.10(0.17)	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

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  L：Agilent/ E4980 or HP4284A
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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707301R0□S0	1.0	30	10 kHz,1 V	0.024	3.50(5.30)	1R0
BPSC000707301R5□S0	1.5	30	10 kHz,1 V	0.0195	3.40(4.50)	1R5
BPSC000707302R2□S0	2.2	20,30	10 kHz,1 V	0.035	3.00(3.40)	2R2
BPSC000707303R0□S0	3	30	10 kHz,1 V	0.024	2.60(3.20)	3R0
BPSC000707303R3□S0	3.3	30	10 kHz,1 V	0.025	2.50(3.10)	3R3
BPSC000707303R9□S0	3.9	30	10 kHz,1 V	0.027	2.30(2.90)	3R9
BPSC000707304R7□S0	4.7	20,30	10 kHz,1 V	0.031	1.92(2.40)	4R7
BPSC000707305R0□S0	5.0	30	10 kHz,1 V	0.031	1.74(2.40)	5R0
BPSC000707306R0□S0	6.0	30	10 kHz,1 V	0.035	1.70(2.25)	6R0
BPSC000707306R2□S0	6.2	20,30	10 kHz,1 V	0.051	1.40(2.20)	6R2
BPSC000707306R8□S0	6.8	20,30	10 kHz,1 V	0.05	1.30(2.15)	6R8
BPSC000707307R3□S0	7.3	30	10 kHz,1 V	0.054	1.25(2.10)	7R3
BPSC000707308R6□S0	8.6	30	10 kHz,1 V	0.058	1.20(1.85)	8R6
BPSC00070730100□S0	10	20,30	10 kHz,1 V	0.065	1.15(1.70)	100
BPSC00070730120□S0	12	20,30	10 kHz,1 V	0.07	1.14(1.50)	120
BPSC00070730150□S0	15	20,30	10 kHz,1 V	0.084	1.12(1.40)	150
BPSC00070730180□S0	18	30	10 kHz,1 V	0.095	1.02(1.32)	180
BPSC00070730220□S0	22	30	10 kHz,1 V	0.128	0.87(1.20)	220
BPSC00070730270□S0	27	30	10 kHz,1 V	0.142	0.82(1.05)	270
BPSC00070730330□S0	33	30	10 kHz,1 V	0.165	0.80(0.97)	330
BPSC00070730390□S0	39	30	10 kHz,1 V	0.21	0.79(0.90)	390
BPSC00070730470□S0	47	20,30	10 kHz,1 V	0.238	0.70(0.80)	470
BPSC00070730560□S0	56	30	10 kHz,1 V	0.277	0.60(0.73)	560
BPSC00070730680□S0	68	30	10 kHz,1 V	0.304	0.55(0.65)	680
BPSC00070730820□S0	82	30	10 kHz,1 V	0.39	0.48(0.60)	820
BPSC00070730101□S0	100	30	10 kHz,1 V	0.535	0.43(0.54)	101
BPSC00070730121□S0	120	20,30	10 kHz,1 V	0.6	0.36(0.45)	121
BPSC00070730221□S0	220	20,30	10 kHz,1 V	1.3	0.27(0.34)	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat(A) Max(Typ.)	Marking
BPSC000707402R2□S0	2.2	30	10 kHz,0.1 V	0.018	3.80(4.70)	2R2
BPSC000707402R7□S0	2.7	30	10 kHz,0.1 V	0.02	3.20(4.00)	2R7
BPSC000707403R3□S0	3.3	20,30	10 kHz,0.1 V	0.023	3.00(3.80)	3R3
BPSC000707404R7□S0	4.7	20,30	10 kHz,0.1 V	0.025	2.70(3.40)	4R7
BPSC000707405R0□S0	5	20,30	10 kHz,0.1 V	0.026	2.50(3.10)	5R0
BPSC000707405R6□S0	5.6	30	10 kHz,0.1 V	0.027	2.30(3.00)	5R6
BPSC000707406R2□S0	6.2	20,30	10 kHz,0.1 V	0.027	1.80(2.80)	6R2
BPSC000707406R8□S0	6.8	30	10 kHz,0.1 V	0.032	1.70(2.70)	6R8
BPSC000707407R4□S0	7.4	30	10 kHz,0.1 V	0.032	1.70(2.50)	7R4
BPSC000707408R7□S0	8.7	30	10 kHz,0.1 V	0.034	1.70(2.40)	8R7
BPSC00070740100□S0	10	20,30	10 kHz,0.1 V	0.041	1.60(2.20)	100
BPSC00070740120□S0	12	30	10 kHz,0.1 V	0.053	1.50(1.90)	120
BPSC00070740150□S0	15	20,30	10 kHz,0.1 V	0.057	1.40(1.80)	150
BPSC00070740180□S0	18	30	10 kHz,0.1 V	0.092	1.25(1.60)	180
BPSC00070740220□S0	22	20,30	10 kHz,0.1 V	0.096	1.10(1.50)	220
BPSC00070740270□S0	27	30	10 kHz,0.1 V	0.109	0.90(1.20)	270
BPSC00070740330□S0	33	20,30	10 kHz,0.1 V	0.124	0.85(1.10)	330
BPSC00070740390□S0	39	20,30	10 kHz,0.1 V	0.138	0.80(1.10)	390
BPSC00070740470□S0	47	20,30	10 kHz,0.1 V	0.15	0.70(1.00)	470
BPSC00070740560□S0	56	30	10 kHz,0.1 V	0.202	0.65(0.90)	560
BPSC00070740680□S0	68	20,30	10 kHz,0.1 V	0.234	0.60(0.80)	680
BPSC00070740820□S0	82	30	10 kHz,0.1 V	0.324	0.55(0.70)	820
BPSC00070740101□S0	100	20,30	10 kHz,0.1 V	0.358	0.50(0.65)	101
BPSC00070740561□S0	560	30	10 kHz,0.1 V	1.8	0.20(0.25)	561

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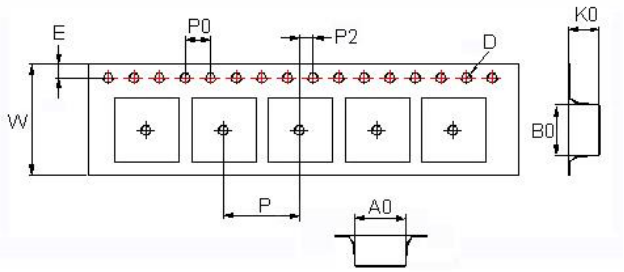
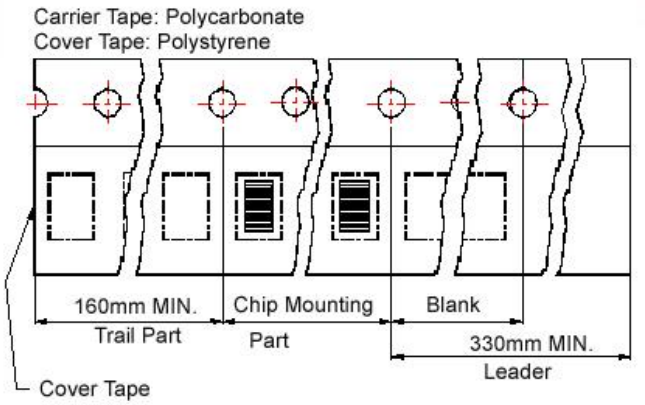
CHILISIN ELECTRONICS CORP.

Packaging Specifications

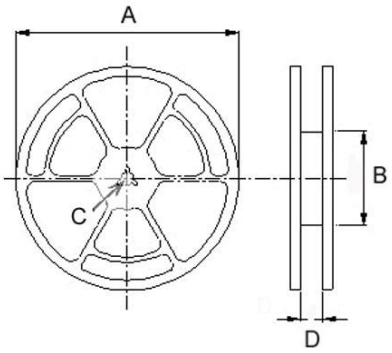
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00404018	4.1	4.1	2.0	1.5	1.75	12	8	4	2	178	60	13	13.2	1000
BPSC00050520	5.3	5.3	2.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050530	5.3	5.3	3.4	1.5	1.75	12	8	4	2	330	100	13	13.4	2000
BPSC00050540	5.35	5.35	4.1	1.55	1.75	12	8	4	2	330	100	13	13.4	1000
BPSC00060620	6.2	6.2	2.2	1.55	1.75	16	12	4	2	330	100	13	13.4	1500
BPSC00060630	6.2	6.2	3.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070730	7.25	7.25	3.35	1.55	1.75	16	12	4	2	330	100	13	17.4	1500
BPSC00070740	7.1	7.1	4.1	1.55	1.75	16	12	4	2	330	100	13	17.4	1000

BPSC Series

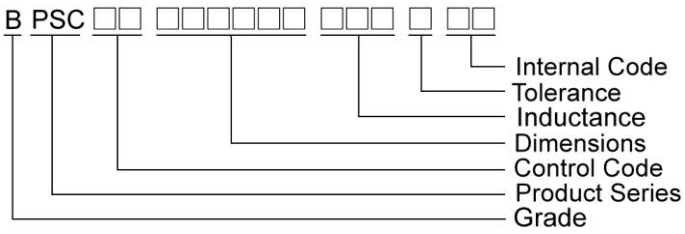
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

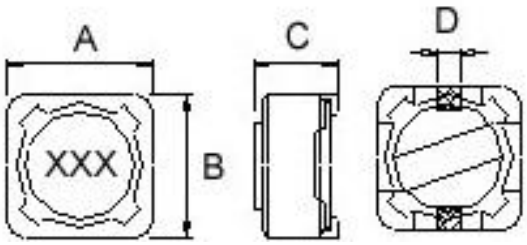
Product Identification

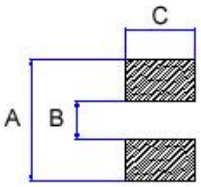


Shape and Dimensions

Recommended Pattern

BPSC00070734/070745





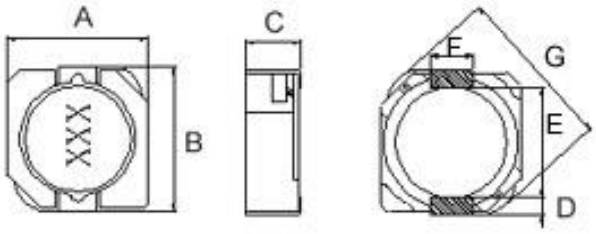
Dimension in mm

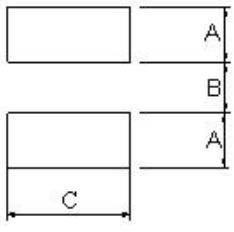
TYPE	Shape and Dimensions				Recommended Pattern		
	A	B	C	D	A	B	C
BPSC00070734	7.3±0.2	7.3±0.2	3.4^{+0}	1.8	8.4	4.4	2.2
BPSC00070745	7.3±0.2	7.3±0.2	4.5^{+0}	1.8	8.4	4.4	2.2

Shape and Dimensions

Recommended Pattern

BPSC00101131/101140/101151





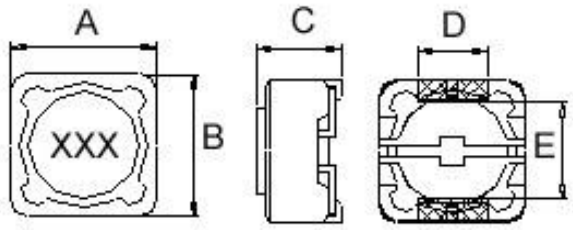
Dimensions in mm

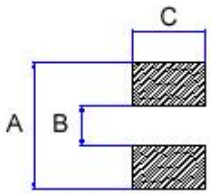
TYPE	A	B	C	D	E	F	G	A	B	C
BPSC00101131	10.3^{+0}	10.5^{+0}	3.1^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2
BPSC00101140	10.3^{+0}	10.5^{+0}	4^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2
BPSC00101151	10.3^{+0}	10.5^{+0}	5.1^{+0}	1.2	7.7	3.0	13.5^{+0}	1.6	7.3	3.2

Shape and Dimensions

Recommended Pattern

BPSC00131345/131360/131380/131310





Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPSC00131345	12.5^{+0}	12.5^{+0}	4.5^{+0}	5	7.6	13	7	5.4
BPSC00131360	12.5^{+0}	12.5^{+0}	6^{+0}	5	7.6	13	7	5.4
BPSC00131380	12.5^{+0}	12.5^{+0}	8^{+0}	5	7.6	13	7	5.4
BPSC00131310	12±0.5	12±0.5	10 Max.	5.0±0.2	7.6±0.3	12.8	7	5.4

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707341R5□00	1.5	20	1 kHz,1 V	0.03	4	1R5
BPSC000707342R2□00	2.2	20	1 kHz,1 V	0.03	4	2R2
BPSC000707343R3□00	3.3	20	1 kHz,1 V	0.04	3.7	3R3
BPSC000707346R8□00	6.8	20	1 kHz,1 V	0.06	2	6R8
BPSC00070734100□00	10	20	1 kHz,1 V	0.072	1.68	100
BPSC00070734120□00	12	20	1 kHz,1 V	0.098	1.52	120
BPSC00070734150□00	15	20	1 kHz,1 V	0.13	1.33	150
BPSC00070734180□00	18	20	1 kHz,1 V	0.14	1.2	180
BPSC00070734220□00	22	20	1 kHz,1 V	0.19	1.07	220
BPSC00070734270□00	27	20	1 kHz,1 V	0.21	0.96	270
BPSC00070734330□00	33	20	1 kHz,1 V	0.24	0.91	330
BPSC00070734390□00	39	20	1 kHz,1 V	0.32	0.77	390
BPSC00070734470□00	47	20	1 kHz,1 V	0.36	0.76	470
BPSC00070734560□00	56	20	1 kHz,1 V	0.47	0.68	560
BPSC00070734680□00	68	20	1 kHz,1 V	0.52	0.61	680
BPSC00070734820□00	82	20	1 kHz,1 V	0.69	0.57	820
BPSC00070734101□00	100	20	1 kHz,1 V	0.79	0.5	101
BPSC00070734121□00	120	20	1 kHz,1 V	0.89	0.49	121
BPSC00070734151□00	150	20	1 kHz,1 V	1.27	0.43	151
BPSC00070734181□00	180	20	1 kHz,1 V	1.45	0.39	181
BPSC00070734221□00	220	20	1 kHz,1 V	1.65	0.35	221
BPSC00070734271□00	270	20	1 kHz,1 V	2.31	0.32	271
BPSC00070734331□00	330	20	1 kHz,1 V	2.62	0.28	331
BPSC00070734391□00	390	20	1 kHz,1 V	2.94	0.26	391
BPSC00070734471□00	470	20	1 kHz,1 V	4.18	0.24	471
BPSC00070734561□00	560	20	1 kHz,1 V	4.67	0.22	561
BPSC00070734681□00	680	20	1 kHz,1 V	5.73	0.19	681
BPSC00070734821□00	820	20	1 kHz,1 V	6.54	0.18	821
BPSC00070734102□00	1000	20	1 kHz,1 V	9.44	0.16	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Marking
BPSC000707451R5□00	1.5	20	1 kHz,1 V	0.02	5	1R5
BPSC000707451R8□00	1.8	20	1 kHz,1 V	0.025	4	1R8
BPSC000707452R2□00	2.2	20,30	1 kHz,1 V	0.025	3.5	2R2
BPSC000707452R7□00	2.7	20,30	1 kHz,1 V	0.03	3.5	2R7
BPSC000707453R3□00	3.3	20,30	1 kHz,1 V	0.035	3.5	3R3
BPSC000707453R6□00	3.6	20,30	1 kHz,1 V	0.035	3.2	3R6
BPSC000707454R7□00	4.7	20,30	1 kHz,1 V	0.035	3	4R7
BPSC000707456R8□00	6.8	20	1 kHz,1 V	0.045	2.5	6R8
BPSC00070745100□00	10	20	1 kHz,1 V	0.049	1.84	100
BPSC00070745120□00	12	20	1 kHz,1 V	0.058	1.71	120
BPSC00070745150□00	15	20	1 kHz,1 V	0.081	1.47	150
BPSC00070745180□00	18	20	1 kHz,1 V	0.091	1.31	180
BPSC00070745220□00	22	20	1 kHz,1 V	0.11	1.23	220
BPSC00070745270□00	27	20	1 kHz,1 V	0.15	1.12	270
BPSC00070745330□00	33	20	1 kHz,1 V	0.17	0.96	330
BPSC00070745390□00	39	20	1 kHz,1 V	0.23	0.91	390
BPSC00070745470□00	47	20	1 kHz,1 V	0.26	0.88	470
BPSC00070745560□00	56	20	1 kHz,1 V	0.35	0.75	560
BPSC00070745680□00	68	20	1 kHz,1 V	0.38	0.69	680
BPSC00070745820□00	82	20	1 kHz,1 V	0.43	0.61	820
BPSC00070745101□00	100	20	1 kHz,1 V	0.61	0.6	101
BPSC00070745121□00	120	20	1 kHz,1 V	0.66	0.52	121
BPSC00070745151□00	150	20	1 kHz,1 V	0.88	0.46	151
BPSC00070745181□00	180	20	1 kHz,1 V	0.98	0.42	181
BPSC00070745221□00	220	10,20	1 kHz,1 V	1.17	0.36	221
BPSC00070745271□00	270	10,20	1 kHz,1 V	1.64	0.34	271
BPSC00070745331□00	330	10,20	1 kHz,1 V	1.86	0.32	331
BPSC00070745391□00	390	10,20	1 kHz,1 V	2.85	0.29	391
BPSC00070745471□00	470	10,20	1 kHz,1 V	3.01	0.26	471
BPSC00070745561□00	560	10,20	1 kHz,1 V	3.62	0.23	561
BPSC00070745681□00	680	10,20	1 kHz,1 V	4.63	0.22	681
BPSC00070745821□00	820	10,20	1 kHz,1 V	5.2	0.2	821
BPSC00070745102□00	1000	10,20	1 kHz,1 V	6	0.18	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
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  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat (A) Max	Irms (A)Typ.	Marking
BPSC001011314R7□00	4.7	30	100 kHz,1 V	0.03	4.65	4	4R7
BPSC001011316R8□00	6.8	30	100 kHz,1 V	0.035	3.84	3.6	6R8
BPSC00101131100□00	10	20,30	100 kHz,1 V	0.059	3.18	2.8	100
BPSC00101131150□00	15	20,30	100 kHz,1 V	0.091	2.6	2.05	150
BPSC00101131330□00	33	20,30	100 kHz,1 V	0.202	1.74	1.35	330
BPSC00101131470□00	47	20,30	100 kHz,1 V	0.299	1.43	1.2	470
BPSC00101131560□00	56	20,30	100 kHz,1 V	0.325	0.9	1.15	560

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- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001011401R5□00	1.5	30,+40-20	100 kHz,1 V	0.0088	8.5(10.5)	6.5	1R5
BPSC001011402R2□00	2.2	30	100 kHz,1 V	0.012	8.0(10.5)	6.1	2R2
BPSC001011402R5□00	2.5	30	100 kHz,1 V	0.012	7.5(9.5)	6.1	2R5
BPSC001011403R3□00	3.3	30	100 kHz,1 V	0.015	7.0(8.7)	5.5	3R3
BPSC001011403R8□00	3.8	30	100 kHz,1 V	0.015	6.8(8.5)	5.5	3R8
BPSC001011404R7□00	4.7	20,30	100 kHz,1 V	0.02	5.8(7.3)	5.4	4R7
BPSC001011405R2□00	5.2	20,30	100 kHz,1 V	0.024	5.8(7.3)	5.2	5R2
BPSC001011405R6□00	5.6	20,30	100 kHz,1 V	0.027	5.0(6.5)	4.5	5R6
BPSC001011406R8□00	6.8	20,30	100 kHz,1 V	0.031	5.0(6.5)	4.4	6R8
BPSC001011407R0□00	7	20,30	100 kHz,1 V	0.031	4.8(5.9)	4.4	7R0
BPSC001011408R2□00	8.2	20,30	100 kHz,1 V	0.036	4.5(5.8)	3.8	8R2
BPSC00101140100□00	10	20,30	100 kHz,1 V	0.04	4.0(5.0)	3.6	100
BPSC00101140120□00	12	20,30	100 kHz,1 V	0.046	3.7(4.6)	3.4	120
BPSC00101140150□00	15	20,30	100 kHz,1 V	0.055	3.4(4.3)	2.8	150
BPSC00101140180□00	18	20,30	100 kHz,1 V	0.075	2.9(3.6)	2.5	180
BPSC00101140220□00	22	20,30	100 kHz,1 V	0.08	2.6(3.3)	2.4	220
BPSC00101140270□00	27	20,30	100 kHz,1 V	0.096	2.4(3.0)	2.2	270
BPSC00101140330□00	33	20,30	100 kHz,1 V	0.098	2.3(2.9)	2.1	330
BPSC00101140390□00	39	20,30	100 kHz,1 V	0.12	2.1(2.7)	2	390
BPSC00101140470□00	47	20,30	100 kHz,1 V	0.144	1.8(2.5)	1.8	470
BPSC00101140560□00	56	20,30	100 kHz,1 V	0.175	1.6(2.1)	1.6	560
BPSC00101140680□00	68	20,30	100 kHz,1 V	0.204	1.4(1.9)	1.45	680
BPSC00101140820□00	82	20,30	100 kHz,1 V	0.25	1.3(1.7)	1.4	820
BPSC00101140101□00	100	20,30	100 kHz,1 V	0.304	1.0(1.6)	1.25	101
BPSC00101140151□00	150	20,30	100 kHz,1 V	0.506	0.96(1.3)	0.85	151
BPSC00101140221□00	220	20,30	100 kHz,1 V	0.69	0.8(1.0)	0.73	221
BPSC00101140331□00	330	20,30	100 kHz,1 V	1.09	0.68(0.86)	0.52	331
BPSC00101140471□00	470	20,30	100 kHz,1 V	1.6	0.6(0.75)	0.46	471
BPSC00101140561□00	560	20,30	100 kHz,1 V	1.68	0.5(0.68)	0.45	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

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  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC00101151R80□00	0.8	30	100 kHz,1 V	0.0062	10.8(13.5)	7.8	R80
BPSC001011511R5□00	1.5	30	100 kHz,1 V	0.0081	10.3(12.9)	7	1R5
BPSC001011512R2□00	2.2	30	100 kHz,1 V	0.011	9.2(11)	6.3	2R2
BPSC001011513R3□00	3.3	30	100 kHz,1 V	0.012	7.2(9.0)	6.1	3R3
BPSC001011514R7□00	4.7	20,30	100 kHz,1 V	0.014	5.6(7.8)	5	4R7
BPSC001011516R8□00	6.8	20,30	100 kHz,1 V	0.024	5.1(6.4)	4.7	6R8
BPSC001011518R2□00	8.2	20,30	100 kHz,1 V	0.027	4.7(5.9)	4.4	8R2
BPSC00101151100□00	10	20,30	100 kHz,1 V	0.028	4.4(5.6)	4.2	100
BPSC00101151120□00	12	20,30	100 kHz,1 V	0.036	3.4(5.8)	3.6	120
BPSC00101151150□00	15	20,30	100 kHz,1 V	0.041	3.2(4.5)	3.4	150
BPSC00101151180□00	18	20,30	100 kHz,1 V	0.046	3.0(3.8)	3.1	180
BPSC00101151220□00	22	20,30	100 kHz,1 V	0.061	2.8(3.6)	2.9	220
BPSC00101151270□00	27	20,30	100 kHz,1 V	0.069	2.1(3.2)	2.6	270
BPSC00101151330□00	33	20,30	100 kHz,1 V	0.084	2.0(2.9)	2.5	330
BPSC00101151390□00	39	20,30	100 kHz,1 V	0.106	1.9(2.6)	2.25	390
BPSC00101151470□00	47	20,30	100 kHz,1 V	0.13	1.7(2.3)	2	470
BPSC00101151560□00	56	20,30	100 kHz,1 V	0.149	1.6(2.2)	1.9	560
BPSC00101151680□00	68	20,30	100 kHz,1 V	0.201	1.5(2.0)	1.6	680
BPSC00101151820□00	82	20,30	100 kHz,1 V	0.227	1.3(1.8)	1.45	820
BPSC00101151101□00	100	20,30	100 kHz,1 V	0.253	1.2(1.7)	1.35	101
BPSC00101151121□00	120	20,30	100 kHz,1 V	0.303	1.1(1.5)	1.18	121
BPSC00101151151□00	150	20,30	100 kHz,1 V	0.42	1.0(1.3)	1	151
BPSC00101151181□00	180	20,30	100 kHz,1 V	0.45	0.9(1.2)	0.9	181
BPSC00101151221□00	220	20,30	100 kHz,1 V	0.54	0.8(1.1)	0.85	221
BPSC00101151271□00	270	20,30	100 kHz,1 V	0.672	0.75(0.99)	0.8	271
BPSC00101151331□00	330	20,30	100 kHz,1 V	0.812	0.74(0.92)	0.73	331
BPSC00101151391□00	390	20,30	100 kHz,1 V	0.953	0.62(0.83)	0.7	391
BPSC00101151471□00	470	20,30	100 kHz,1 V	1.29	0.6(0.77)	0.54	471
BPSC00101151561□00	560	20,30	100 kHz,1 V	1.43	0.47(0.71)	0.52	561
BPSC00101151681□00	680	20,30	100 kHz,1 V	1.6	0.46(0.65)	0.51	681
BPSC00101151821□00	820	20,30	100 kHz,1 V	1.77	0.42(0.57)	0.48	821
BPSC00101151102□00	1000	20,30	100 kHz,1 V	2.2	0.40(0.54)	0.4	102

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  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313453R3□00	3.3	30	100 kHz,1 V	0.015	8.8(11.1)	3R3
BPSC001313453R9□00	3.9	30	100 kHz,1 V	0.016	8.0(10.1)	3R9
BPSC001313454R7□00	4.7	20,30	100 kHz,1 V	0.018	7.9(9.9)	4R7
BPSC001313456R8□00	6.8	20,30	100 kHz,1 V	0.023	6.5(8.3)	6R8
BPSC00131345100□00	10	20,30	100 kHz,1 V	0.035	5.2(6.6)	100
BPSC00131345120□00	12	20,30	100 kHz,1 V	0.038	4.8(6.2)	120
BPSC00131345150□00	15	20,30	100 kHz,1 V	0.05	4.1(5.4)	150
BPSC00131345180□00	18	20,30	100 kHz,1 V	0.057	4.0(5.1)	180
BPSC00131345220□00	22	20,30	100 kHz,1 V	0.066	3.5(4.4)	220
BPSC00131345270□00	27	20,30	100 kHz,1 V	0.08	3.1(3.9)	270
BPSC00131345330□00	33	20,30	100 kHz,1 V	0.097	2.7(3.5)	330
BPSC00131345390□00	39	20,30	100 kHz,1 V	0.132	2.1(3.2)	390
BPSC00131345470□00	47	20,30	100 kHz,1 V	0.15	1.9(2.9)	470
BPSC00131345560□00	56	20,30	100 kHz,1 V	0.19	1.8(2.6)	560
BPSC00131345680□00	68	20,30	100 kHz,1 V	0.22	1.5(2.5)	680
BPSC00131345820□00	82	20,30	100 kHz,1 V	0.26	1.3(2.3)	820
BPSC00131345101□00	100	20,30	100 kHz,1 V	0.308	1.2(2.0)	101
BPSC00131345121□00	120	20,30	100 kHz,1 V	0.38	1.1(1.8)	121
BPSC00131345151□00	150	20,30	100 kHz,1 V	0.53	0.95(1.6)	151
BPSC00131345181□00	180	20,30	100 kHz,1 V	0.62	0.85(1.4)	181
BPSC00131345221□00	220	20,30	100 kHz,1 V	0.7	0.8(1.3)	221
BPSC00131345271□00	270	20,30	100 kHz,1 V	0.876	0.6(1.1)	271
BPSC00131345331□00	330	20,30	100 kHz,1 V	0.99	0.5(1.0)	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
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- Measure Equipment：
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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Irms (A)Typ.	Marking
BPSC001313603R3□00	3.3	30	1 kHz,1 V	0.015	8.0(11)	6.5	3R3
BPSC001313604R7□00	4.7	20,30	1 kHz,1 V	0.018	7.6(9.2)	5.7	4R7
BPSC001313606R4□00	6.4	20,30	1 kHz,1 V	0.018	6.4(8.1)	5.7	6R4
BPSC001313608R2□00	8.2	20,30	1 kHz,1 V	0.02	5.8(7.4)	5	8R2
BPSC00131360100□00	10	20,30	1 kHz,1 V	0.025	5.3(6.8)	4	100
BPSC00131360120□00	12	20,30	1 kHz,1 V	0.027	5.3(6.8)	3.5	120
BPSC00131360150□00	15	20,30	1 kHz,1 V	0.03	4.0(5.2)	3.3	150
BPSC00131360180□00	18	20,30	1 kHz,1 V	0.034	3.8(4.9)	3	180
BPSC00131360220□00	22	20,30	1 kHz,1 V	0.036	3.6(4.8)	2.8	220
BPSC00131360270□00	27	20,30	1 kHz,1 V	0.051	3.2(4.1)	2.3	270
BPSC00131360330□00	33	20,30	1 kHz,1 V	0.057	2.9(3.7)	2.1	330
BPSC00131360390□00	39	20,30	1 kHz,1 V	0.068	2.7(3.5)	2	390
BPSC00131360470□00	47	20,30	1 kHz,1 V	0.084	2.4(3.1)	1.9	470
BPSC00131360560□00	56	20,30	1 kHz,1 V	0.1	2.1(2.7)	1.7	560
BPSC00131360680□00	68	20,30	1 kHz,1 V	0.12	2.0(2.6)	1.5	680
BPSC00131360820□00	82	20,30	1 kHz,1 V	0.14	1.8(2.3)	1.4	820
BPSC00131360101□00	100	20,30	1 kHz,1 V	0.16	1.6(2.1)	1.3	101
BPSC00131360121□00	120	20,30	1 kHz,1 V	0.18	1.5(1.9)	1.05	121
BPSC00131360151□00	150	20,30	1 kHz,1 V	0.23	1.3(1.7)	1	151
BPSC00131360181□00	180	20,30	1 kHz,1 V	0.29	1.2(1.6)	0.9	181
BPSC00131360221□00	220	20,30	1 kHz,1 V	0.32	1.0(1.4)	0.85	221
BPSC00131360271□00	270	20,30	1 kHz,1 V	0.38	0.90(1.2)	0.83	271
BPSC00131360331□00	330	20,30	1 kHz,1 V	0.48	0.75(1.1)	0.73	331
BPSC00131360391□00	390	20,30	1 kHz,1 V	0.6	0.70(1.0)	0.67	391
BPSC00131360471□00	470	20,30	1 kHz,1 V	0.7	0.65(0.99)	0.66	471
BPSC00131360561□00	560	20,30	1 kHz,1 V	0.86	0.60(0.91)	0.54	561
BPSC00131360681□00	680	20,30	1 kHz,1 V	1.1	0.55(0.82)	0.52	681
BPSC00131360821□00	820	20,30	1 kHz,1 V	1.34	0.50(0.71)	0.43	821
BPSC00131360102□00	1000	20,30	1 kHz,1 V	1.53	0.45(0.64)	0.3	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat & Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max	Isat(A) Max(Typ.)	Marking
BPSC001313801R5□00	1.5	30	100 kHz,1 V	0.0074	21.6(28.0)	1R5
BPSC001313802R2□00	2.2	30,+40-20	100 kHz,1 V	0.0089	17.6(24.0)	2R2
BPSC001313802R4□00	2.4	30,+40-20	100 kHz,1 V	0.0089	17.6(24.0)	2R4
BPSC001313803R3□00	3.3	30,+40-20	100 kHz,1 V	0.0099	14.6(19.4)	3R3
BPSC001313803R5□00	3.5	30,+40-20	100 kHz,1 V	0.0123	13.8(17.4)	3R5
BPSC001313804R7□00	4.7	20,30	100 kHz,1 V	0.0158	12.3(15.4)	4R7
BPSC001313806R1□00	6.1	20,30,+40-20	100 kHz,1 V	0.0176	10.9(13.8)	6R1
BPSC001313806R8□00	6.8	20,30	100 kHz,1 V	0.018	10.8(13.7)	6R8
BPSC001313807R6□00	7.6	20,30	100 kHz,1 V	0.02	10.0(12.6)	7R6
BPSC00131380100□00	10	20,30	1 kHz,1 V	0.022	8.9(11.2)	100
BPSC00131380120□00	12	20,30	1 kHz,1 V	0.03	7.4(9.4)	120
BPSC00131380150□00	15	20,30	1 kHz,1 V	0.034	7.1(9.0)	150
BPSC00131380180□00	18	20,30	1 kHz,1 V	0.0392	6.5(8.2)	180
BPSC00131380220□00	22	20,30	1 kHz,1 V	0.048	5.8(7.5)	220
BPSC00131380270□00	27	20,30	1 kHz,1 V	0.052	5.3(6.7)	270
BPSC00131380330□00	33	20,30	1 kHz,1 V	0.0648	4.8(6.1)	330
BPSC00131380390□00	39	20,30	1 kHz,1 V	0.065	3.9(5.6)	390
BPSC00131380470□00	47	20,30	1 kHz,1 V	0.1	3.6(5.2)	470
BPSC00131380560□00	56	20,30	1 kHz,1 V	0.11	3.4(4.8)	560
BPSC00131380680□00	68	20,30	1 kHz,1 V	0.12	2.8(4.1)	680
BPSC00131380820□00	82	20,30	1 kHz,1 V	0.16	2.7(4.0)	820
BPSC00131380101□00	100	20,30	1 kHz,1 V	0.17	2.5(3.5)	101
BPSC00131380121□00	120	20,30	1 kHz,1 V	0.19	2.2(3.2)	121
BPSC00131380151□00	150	20,30	1 kHz,1 V	0.25	2.0(2.9)	151
BPSC00131380181□00	180	20,30	1 kHz,1 V	0.31	1.8(2.6)	181
BPSC00131380221□00	220	20,30	1 kHz,1 V	0.35	1.7(2.4)	221
BPSC00131380271□00	270	20,30	1 kHz,1 V	0.43	1.5(2.2)	271
BPSC00131380331□00	330	20,30	1 kHz,1 V	0.51	1.2(2.0)	331
BPSC00131380391□00	390	20,30	1 kHz,1 V	0.6	1.1(1.6)	391
BPSC00131380471□00	470	20,30	1 kHz,1 V	0.71	0.99(1.6)	471
BPSC00131380561□00	560	20,30	1 kHz,1 V	0.88	0.95(1.4)	561
BPSC00131380681□00	680	20,30	1 kHz,1 V	1.04	0.84(1.2)	681
BPSC00131380821□00	820	20,30	1 kHz,1 V	1.36	0.77(1.1)	821
BPSC00131380102□00	1000	20,30	1 kHz,1 V	1.66	0.73(1.0)	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30% , N=+40% -20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value with current
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC001313101R0□00	1	30	100kHz, 0.1V	0.0055	19.90	11.6	1R0
BPSC001313101R8□00	1.8	30	100kHz, 0.1V	0.0065	13.40	11	1R8
BPSC001313102R0□00	2	30	100kHz, 0.1V	0.0070	12.90	10.7	2R0
BPSC001313102R2□00	2.2	20,30	100kHz, 0.1V	0.0070	12.90	10.7	2R2
BPSC001313102R5□00	2.5	30	100kHz, 0.1V	0.0080	12.16	10.3	2R5
BPSC001313103R5□00	3.5	30	100kHz, 0.1V	0.0097	12.00	8.7	3R5
BPSC001313103R6□00	3.6	30	100kHz, 0.1V	0.0100	12.00	8.7	3R6
BPSC001313104R7□00	4.7	20,30	100kHz, 0.1V	0.0110	11.00	8.4	4R7
BPSC001313105R8□00	5.8	30	100kHz, 0.1V	0.0113	10.50	7.6	5R8
BPSC001313106R8□00	6.8	20,30	100kHz, 0.1V	0.0115	10.00	7.1	6R8
BPSC001313107R5□00	7.5	20,30	100kHz, 0.1V	0.0140	8.48	6.8	7R5
BPSC001313108R2□00	8.2	20,30	100kHz, 0.1V	0.0160	8.30	6.7	8R2
BPSC00131310100□00	10	20,30	100kHz, 0.1V	0.0170	8.20	6.95	100
BPSC00131310120□00	12	20,30	100kHz, 0.1V	0.0185	7.04	6.2	120
BPSC00131310150□00	15	20,30	100kHz, 0.1V	0.025	5.80	5.22	150
BPSC00131310220□00	22	20,30	100kHz, 0.1V	0.029	5.12	4.95	220
BPSC00131310330□00	33	20,30	100kHz, 0.1V	0.053	4.25	3.6	330
BPSC00131310470□00	47	20,30	100kHz, 0.1V	0.063	3.60	3.45	470
BPSC00131310560□00	56	20,30	100kHz, 0.1V	0.068	2.85	2.95	560
BPSC00131310680□00	68	20,30	100kHz, 0.1V	0.093	2.76	2.85	680
BPSC00131310820□00	82	20,30	100kHz, 0.1V	0.099	2.62	2.6	820
BPSC00131310850□00	85	20,30	100kHz, 0.1V	0.120	2.60	2.6	850
BPSC00131310101□00	100	20,30	100kHz, 0.1V	0.126	2.31	2.45	101
BPSC00131310121□00	120	20,30	100kHz, 0.1V	0.154	2.05	2.2	121
BPSC00131310151□00	150	20,30	100kHz, 0.1V	0.174	1.80	1.9	151
BPSC00131310181□00	180	20,30	100kHz, 0.1V	0.191	1.66	1.86	181
BPSC00131310221□00	220	20,30	100kHz, 0.1V	0.246	1.64	1.72	221
BPSC00131310331□00	330	20,30	100kHz, 0.1V	0.386	1.28	1.28	331
BPSC00131310391□00	390	20,30	100kHz, 0.1V	0.440	1.20	1.27	391
BPSC00131310471□00	470	20,30	100kHz, 0.1V	0.471	1.06	1.25	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω) Max.	Isat (A)Max.	Irms (A)Typ.	Marking
BPSC00131310561□00	560	20,30	100kHz, 0.1V	0.650	1.01	0.98	561
BPSC00131310681□00	680	20,30	100kHz, 0.1V	0.730	0.83	0.96	681
BPSC00131310821□00	820	20,30	100kHz, 0.1V	0.824	0.81	0.94	821
BPSC00131310102□00	1000	20,30	100kHz, 0.1V	1.220	0.70	0.78	102
BPSC00131310122□00	1200	20,30	100kHz, 0.1V	1.330	0.64	0.79	122
BPSC00131310152□00	1500	20,30	100kHz, 0.1V	1.990	0.56	0.58	152
BPSC00131310182□00	1800	20,30	100kHz, 0.1V	2.180	0.48	0.54	182
BPSC00131310222□00	2200	20,30	100kHz, 0.1V	2.580	0.43	0.52	222
BPSC00131310332□00	3300	20,30	100kHz, 0.1V	4.600	0.30	0.4	332

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value with current
- Irms for a 40℃ temperature rise from 25℃ ambient
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms：HP4284+42841A or WK3260B+WK3265B

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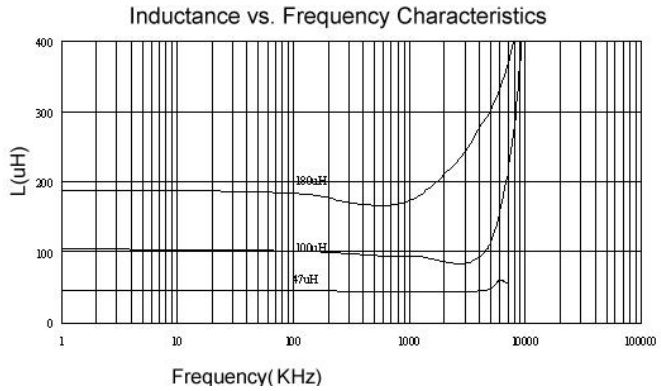
Pulse a YAGEO company

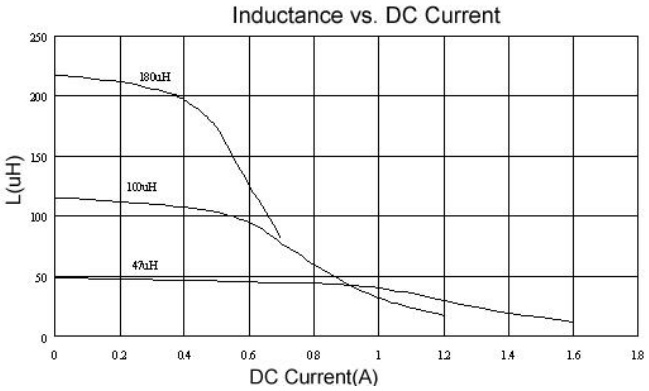
CHILISIN ELECTRONICS CORP.

Curves of BPSC Series

Test Instruments：HP4294 Impedance / Material Analyzer

BPSC00070734





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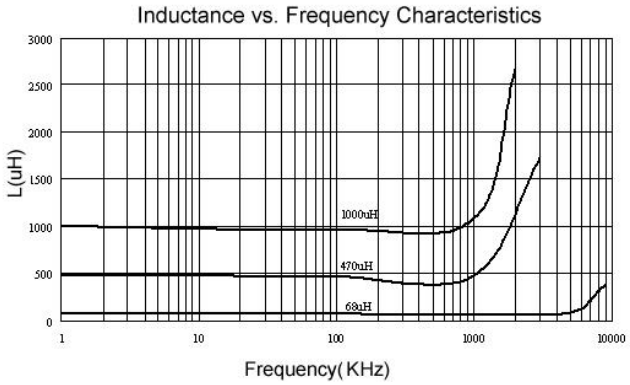

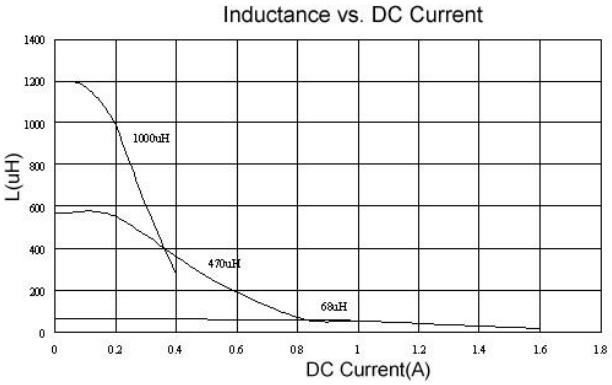

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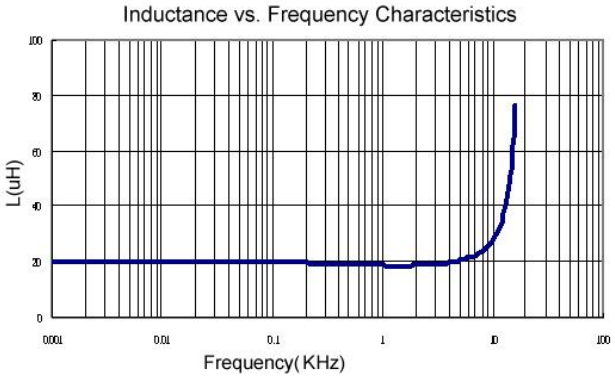

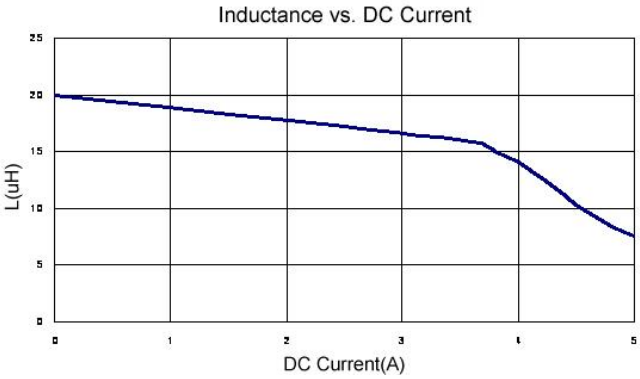

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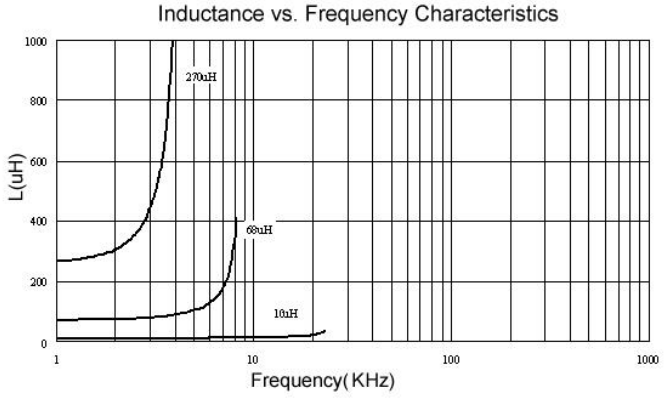

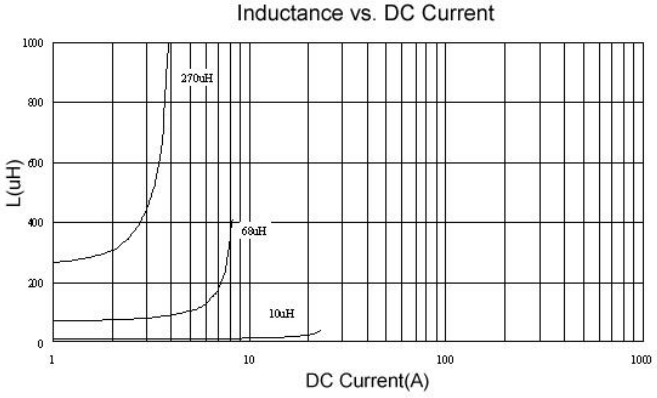

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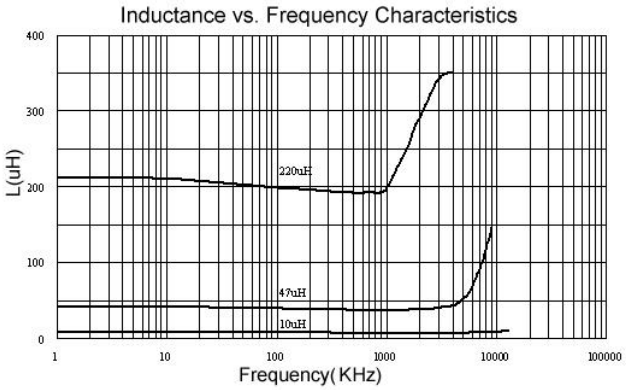
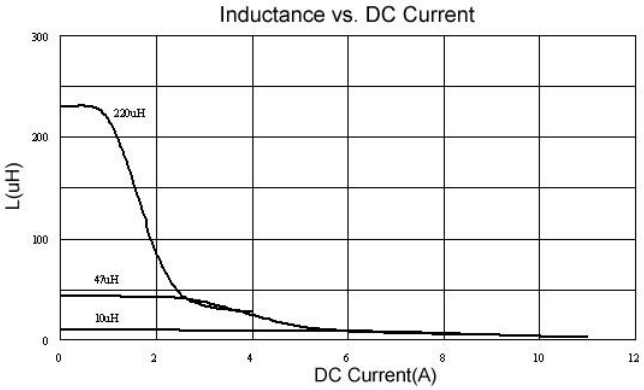
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Shielded Power Inductors - BPSC Series

BPSC00131360





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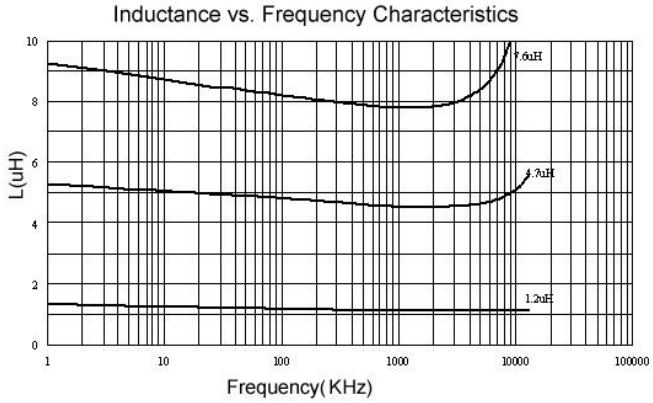

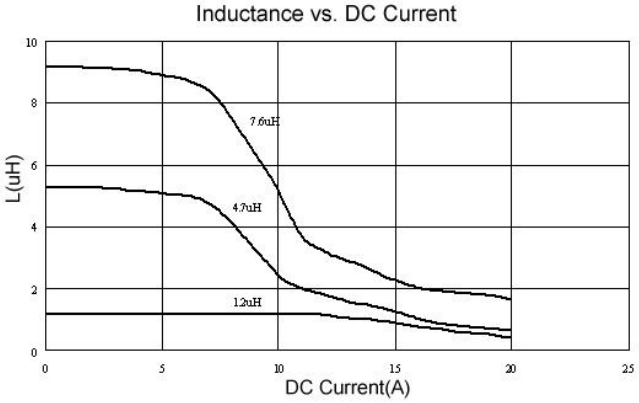

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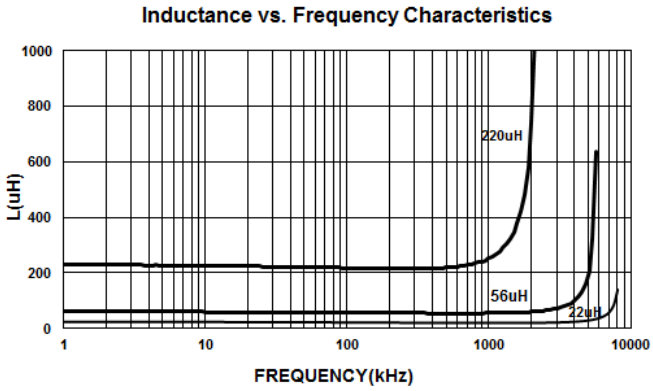

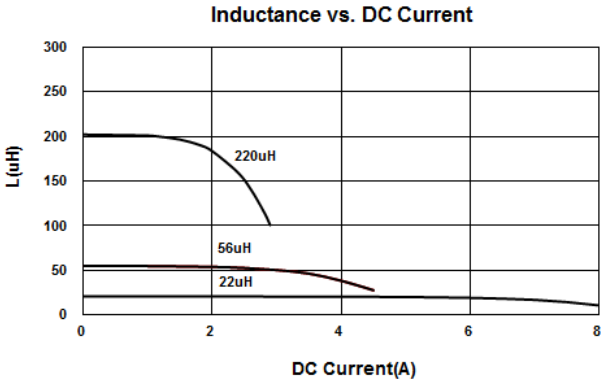

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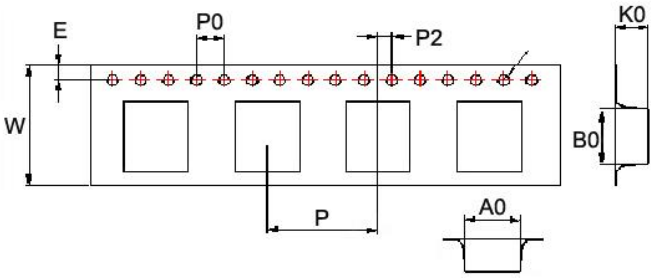
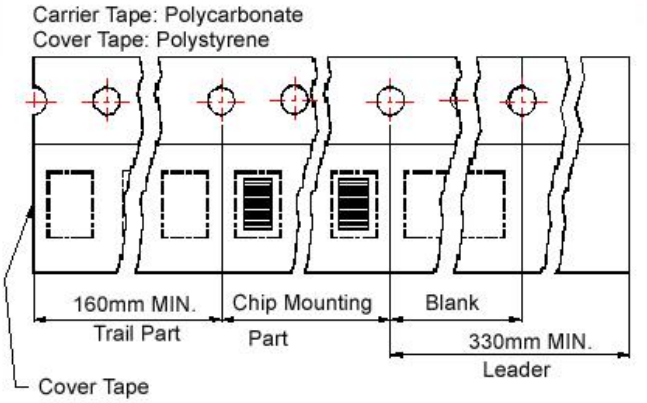
Packaging Specifications

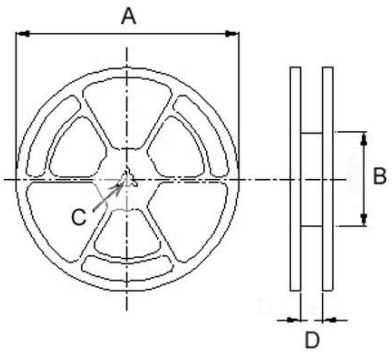
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00070734	7.6	7.6	3.6	1.55	1.75	16	12	4	2	330	100	13	16.0	1600
BPSC00070745	7.6	7.6	5.0	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSC00101131	10.6	10.75	4.2	1.55	1.75	24	16	4	2	300	100	13	24.4	1000
BPSC00101140	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
BPSC00101151	10.6	10.6	5.0	1.5	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131345	13.0	12.8	5.1	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131360	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.4	600
BPSC00131380	12.6	12.6	8.7	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSC00131310	12.7	12.7	10.2	1.55	1.75	24	24	4	2	330	100	13	24.4	250

BPSC Series

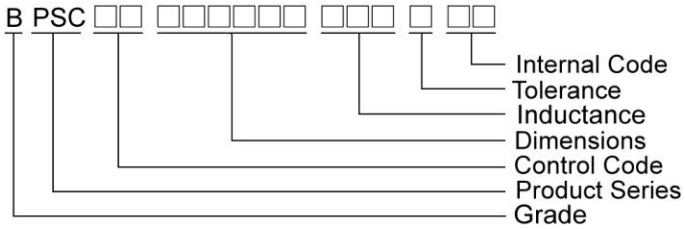
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

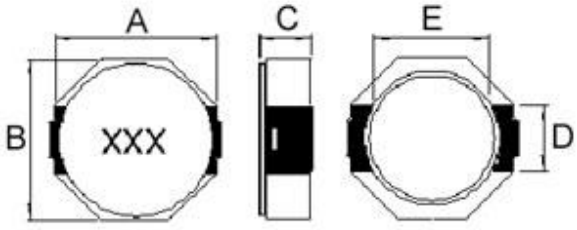
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

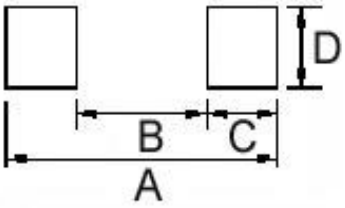
Product Identification



Shapes and Dimensions



Recommended Pattern



Dimension in mm

TYPE	A	B	C	D	E
BPSC00080845	8.3^{+0}	8.3^{+0}	4.5^{+0}	2.5	6.3

Dimension in mm

TYPE	A	B	C	D
BPSC00080845	10.1	6.1	2.0	2.8

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Rated Current (A)	Marking
BPSC000808453R3□00	3.3	20	100	19	5.7	3R3
BPSC000808454R7□00	4.7	20	100	22	5.6	4R7
BPSC000808456R8□00	6.8	20	100	25	4.4	6R8
BPSC00080845100□00	10	20	100	36	4.0	100
BPSC00080845150□00	15	20	100	53	2.9	150
BPSC00080845220□00	22	20	100	75	2.4	220
BPSC00080845470□00	47	20	100	150	1.8	470
BPSC00080845680□00	68	20	100	240	1.5	680
BPSC00080845101□00	100	20	100	353	1.1	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－30℃～100℃(Including self - temperature rise)
- Rated current for Inductance drop 35% from its value with current
- Measure Equipment：

  L：HP4284A 100kHz/1V

  RDC：Chroma 16502

  Rated current：HP4284+42841A

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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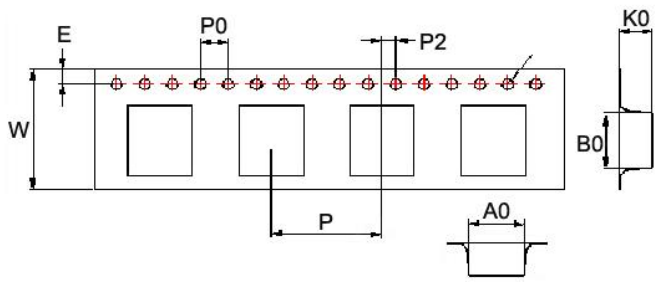
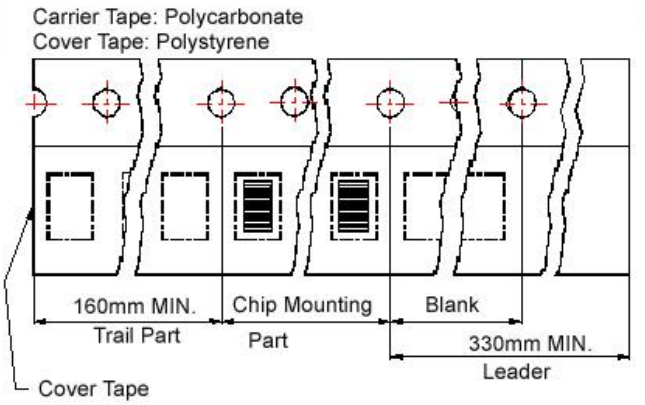
Packaging Specifications

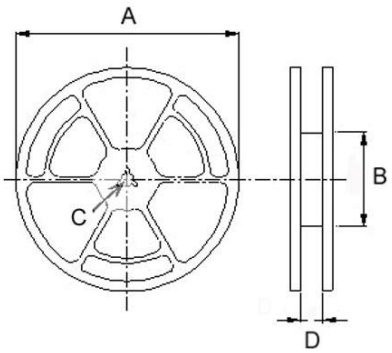
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSC00080845	8.4	9.9	4.8	1.55	1.75	24	12	4	2	330	100	13	24.4	1000

BPDx Series

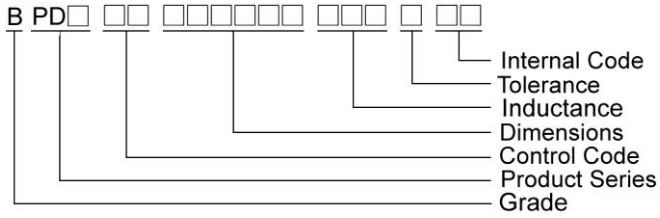
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

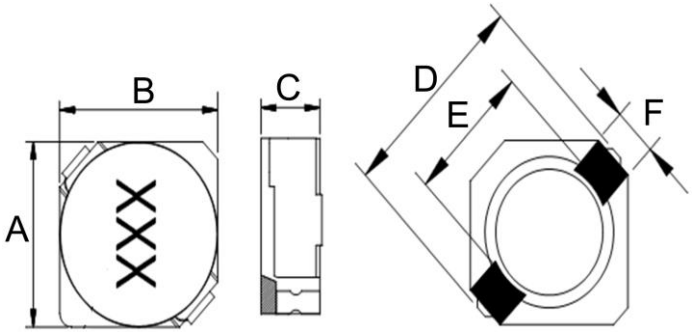
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

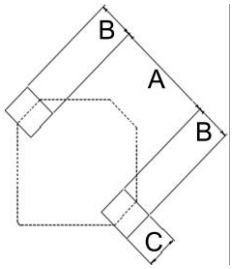
Product Identification



Shape and Dimensions



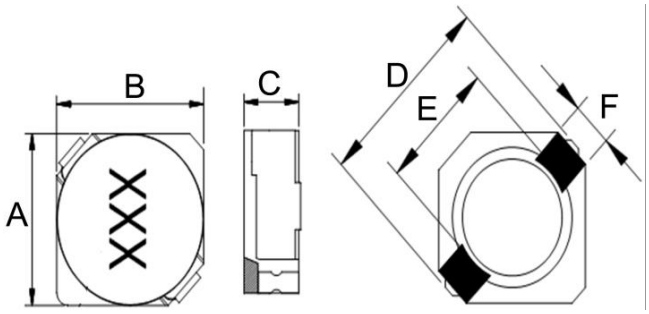
Recommended Pattern



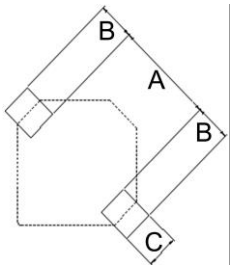
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00030310	3.0±0.2	3.0±0.2	1.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDL00030312	3.0±0.2	3.0±0.2	1.2Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDS00030316	3.0±0.2	3.0±0.2	1.55Max	4.5Max	2.1	1.0	1.7	1.3	1.3
BPDx00030320	3.0±0.2	3.0±0.2	2.0Max	4.5Max	2.1	1.0	1.7	1.3	1.3

Shape and Dimensions

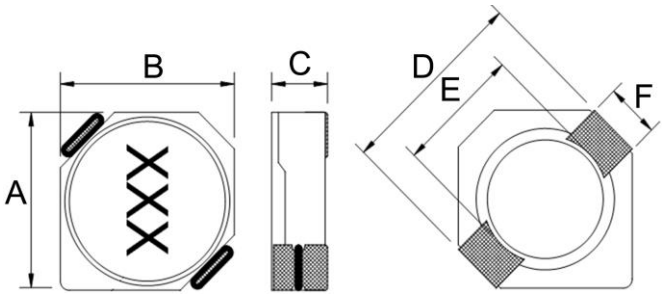


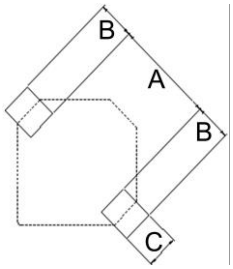
Recommended Pattern



Dimensions in mm

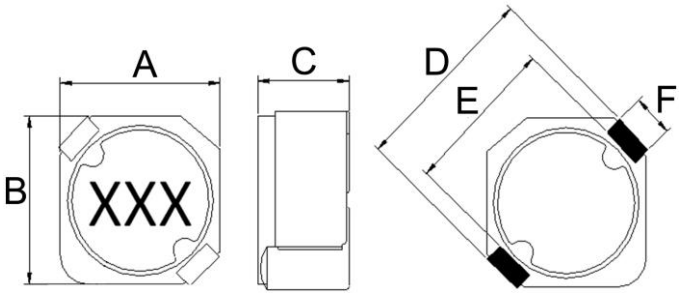
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDx00040415	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (1R0~4R7)	3.8±0.2	3.8±0.2	1.5Max	5.4Max	2.8	1.1	2.4	1.4	1.5
BPDH00040418 (6R8~561)	3.8±0.2	3.8±0.2	1.5Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDN00040423	3.8±0.2	3.8±0.2	2.3Max	5.0±0.4	2.8	1.1	2.4	1.4	1.5
BPDN00040430	3.8±0.2	3.8±0.2	3.0Max	5.4Max	2.8	1.1	2.4	1.4	1.5

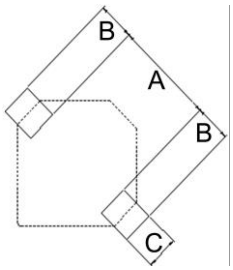




Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDH00040412	3.8±0.2	3.8±0.2	1.2Max	5.2Max	2.8	1.1	2.4	1.4	1.5
BPDH00060618	5.6±0.2	5.6±0.2	1.8Max	7.0Max	4.7	1.2	4.3	1.45	1.6

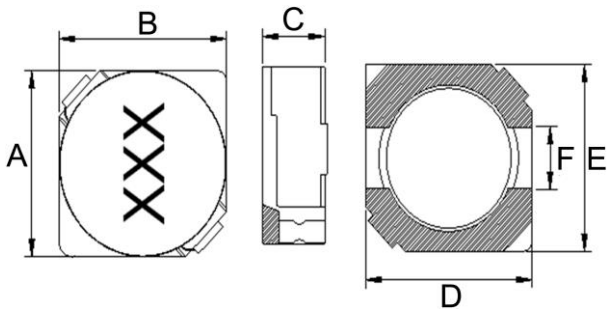




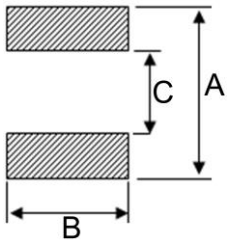
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDC00050520	5.1Max	5.1Max	2.0Max	6.2Max	4.4	1.4	4	1.25	2
BPDC00050530	5.1Max	5.1Max	3.0Max	6.2Max	4.4	1.4	4	1.25	2

Shape and Dimensions



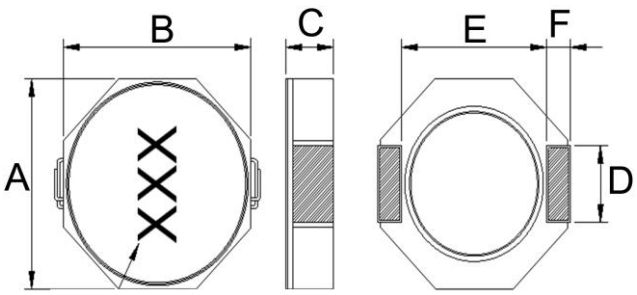
Recommended Pattern



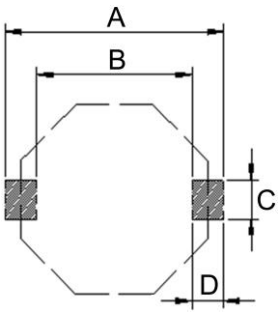
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPDR00040416	3.8±0.2	3.8±0.2	1.6±0.3	3.7	3.7	1.2	4.4	4.4	1.2
BPDR00050520	4.7±0.3	4.7±0.3	2.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00050530	4.7±0.3	4.7±0.3	3.0Max	4.5	4.5	1.5	5.3	5.3	1.5
BPDR00060620	5.7±0.3	5.7±0.3	2.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060630	5.7±0.3	5.7±0.3	3.0Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDR00060655	5.7±0.3	5.7±0.3	5.5Max	5.5	5.5	2.0	6.3	6.3	2.0
BPDx00070730	6.7±0.3	6.7±0.3	3.0Max	6.5	6.5	2.0	7.3	7.3	2.0
BPDR00070740	6.7±0.3	6.7±0.3	4.0Max	6.5	6.5	2.0	7.3	7.3	2.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPDR00080830	8.0±0.2	8.0±0.2	3.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080840	8.0±0.2	8.0±0.2	4.0Max	2.5	6.3	1.2	10.1	6.1	2.8	2
BPDR00080845	8.0±0.2	8.0±0.2	4.5Max	2.5	6.3	1.2	10.1	6.1	2.8	2

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDC000303101R2□00	1.2	20,30	100	0.078	0.83	1.55	1R2
BPDC000303101R5□00	1.5	20,30	100	0.088	0.70	1.35	1R5
BPDC000303102R2□00	2.2	20,30	100	0.119	0.60	1.20	2R2
BPDC000303102R4□00	2.4	20,30	100	0.119	0.58	1.10	2R4
BPDC000303103R3□00	3.3	20,30	100	0.174	0.50	0.90	3R3
BPDC000303104R7□00	4.7	20,30	100	0.238	0.38	0.80	4R7
BPDC000303106R4□00	6.4	20,30	100	0.29	0.36	0.65	6R4
BPDC000303108R2□00	8.2	20,30	100	0.40	0.31	0.56	8R2
BPDC00030310100□00	10	20,30	100	0.50	0.30	0.51	100
BPDC00030310120□00	12	20,30	100	0.55	0.27	0.45	120
BPDC00030310150□00	15	20,30	100	0.65	0.24	0.42	150
BPDC00030310180□00	18	20,30	100	0.77	0.22	0.38	180
BPDC00030310220□00	22	20,30	100	0.94	0.20	0.35	220
BPDC00030310270□00	27	20,30	100	1.11	0.16	0.32	270

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505201R1□00	1.1	30	100	0.029	2.4	1R1
BPDC000505201R2□00	1.2	30	100	0.029	2.4	1R2
BPDC000505202R2□00	2.2	20,30	100	0.039	1.7	2R2
BPDC000505203R0□00	3.0	30	100	0.061	1.5	3R0
BPDC000505203R3□00	3.3	20,30	100	0.061	1.5	3R3
BPDC000505204R7□00	4.7	20,30	100	0.110	1.15	4R7
BPDC000505206R8□00	6.8	30	100	0.125	1.05	6R8
BPDC00050520100□00	10	20,30	100	0.156	0.83	100
BPDC00050520150□00	15	20,30	100	0.194	0.70	150
BPDC00050520220□00	22	20,30	100	0.323	0.60	220
BPDC00050520330□00	33	20,30	100	0.550	0.46	330
BPDC00050520470□00	47	20,30	100	0.783	0.41	470
BPDC00050520680□00	68	20,30	100	1.16	0.305	680
BPDC00050520101□00	100	20,30	100	1.51	0.250	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDC000505301R1□00	1.1	30	100	0.022	3.8	1R1
BPDC000505302R0□00	2.0	20,30	100	0.029	2.6	2R0
BPDC000505303R2□00	3.2	30	100	0.042	2.3	3R2
BPDC000505304R7□00	4.7	20,30	100	0.063	1.8	4R7
BPDC000505306R3□00	6.3	30	100	0.094	1.3	6R3
BPDC00050530100□00	10	20,30	100	0.106	1.26	100
BPDC00050530150□00	15	20,30	100	0.137	1.05	150
BPDC00050530220□00	22	20,30	100	0.207	0.85	220
BPDC00050530330□00	33	20,30	100	0.331	0.70	330
BPDC00050530470□00	47	20,30	100	0.510	0.54	470
BPDC00050530680□00	68	20,30	100	0.625	0.49	680
BPDC00050530101□00	100	20,30	100	0.948	0.40	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000303201R3□00	1.3	30	100	0.044	1.90	2.5	1R3
BPDH000303201R5□00	1.5	30	100	0.044	1.85	2.2	1R5
BPDH000303201R7□00	1.7	30	100	0.044	1.85	2.2	1R7
BPDH000303202R2□00	2.2	20,30	100	0.060	1.60	1.9	2R2
BPDH000303203R3□00	3.3	20,30	100	0.086	1.45	1.55	3R3
BPDH000303203R9□00	3.9	30	100	0.125	1.30	1.35	3R9
BPDH000303204R7□00	4.7	20,30	100	0.140	1.20	1.20	4R7
BPDH000303206R3□00	6.3	20,30	100	0.160	1.05	1.15	6R3
BPDH00030320100□00	10	20,30	100	0.245	0.85	0.90	100
BPDH00030320150□00	15	20,30	100	0.345	0.7	0.64	150
BPDH00030320470□00	47	20,30	100	1.1	0.4	0.40	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00040412R60□00	0.6	30	100	0.059	2.9	1.80	R60
BPDH000404121R2□00	1.2	30	100	0.082	2.0	1.70	1R2
BPDH000404121R5□00	1.5	30	100	0.104	1.85	1.45	1R5
BPDH000404122R2□00	2.2	30	100	0.143	1.60	1.15	2R2
BPDH000404122R5□00	2.5	20,30	100	0.150	1.55	1.10	2R5
BPDH000404123R3□00	3.3	30	100	0.182	1.25	0.95	3R3
BPDH000404124R7□00	4.7	20,30	100	0.234	1.00	0.90	4R7
BPDH000404125R6□00	5.6	20,30	100	0.305	0.93	0.80	5R6
BPDH000404126R8□00	6.8	30	100	0.377	0.85	0.70	6R8
BPDH00040412100□00	10	20,30	100	0.413	0.80	0.60	100
BPDH00040412120□00	12	20,30	100	0.585	0.64	0.48	120
BPDH00040412150□00	15	20,30	100	0.653	0.58	0.45	150
BPDH00040412180□00	18	20,30	100	0.888	0.52	0.40	180
BPDH00040412220□00	22	20,30	100	1.012	0.45	0.33	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404151R5□00	1.5	25,30	100	0.076	2.6	1.85	1R5
BPDH000404152R2□00	2.2	30	100	0.129	2.0	1.32	2R2
BPDH000404152R4□00	2.4	30	100	0.129	2.0	1.32	2R4
BPDH000404153R2□00	3.2	30	100	0.139	1.8	1.25	3R2
BPDH000404154R7□00	4.7	20,25,30	100	0.214	1.45	1.04	4R7
BPDH000404156R8□00	6.8	20,25,30	100	0.29	1.20	0.84	6R8
BPDH00040415100□00	10	20,25,30	100	0.44	1.00	0.67	100
BPDH00040415150□00	15	20,30	100	0.65	0.80	0.50	150
BPDH00040415180□00	18	20,30	100	0.74	0.73	0.49	180
BPDH00040415220□00	22	20,25,30	100	0.83	0.65	0.48	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000404181R0□00	1.0	30	100	0.048	2.5	2.8	1R0
BPDH000404181R2□00	1.2	30	100	0.0495	2.3	2.6	1R2
BPDH000404181R5□00	1.5	30	100	0.051	2.0	2.4	1R5
BPDH000404181R7□00	1.7	30	100	0.051	2.0	2.4	1R7
BPDH000404182R2□00	2.2	20,30	100	0.059	1.75	2.3	2R2
BPDH000404183R3□00	3.3	20,30	100	0.085	1.4	1.8	3R3
BPDH000404184R7□00	4.7	20,30	100	0.116	1.2	1.5	4R7
BPDH000404186R8□00	6.8	20,30	100	0.18	1.0	1.1	6R8
BPDH00040418100□00	10	20,30	100	0.23	0.84	1.0	100
BPDH00040418150□00	15	20,30	100	0.41	0.65	0.75	150
BPDH00040418220□00	22	20,30	100	0.61	0.55	0.52	220
BPDH00040418330□00	33	20,30	100	0.87	0.46	0.41	330
BPDH00040418470□00	47	20,30	100	0.95	0.42	0.37	470
BPDH00040418561□00	560	20,30	100	15	0.09	0.11	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH00060618R90□00	0.9	30	100	0.022	4.7	5.0	R90
BPDH000606182R2□00	2.2	20,30	100	0.0359	3.0	2.9	2R2
BPDH000606184R7□00	4.7	20,30	100	0.0641	2.1	2.1	4R7
BPDH00060618100□00	10	20,30	100	0.14	1.45	1.3	100
BPDH00060618150□00	15	20,30	100	0.24	1.10	1.1	150
BPDH00060618220□00	22	20,30	100	0.32	0.95	0.8	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDH000707304R7□00	4.7	20,30	100	0.042	3.5	3.5	4R7
BPDH00070730100□00	10	20,30	100	0.085	2.3	2.3	100
BPDH00070730150□00	15	20,30	100	0.128	2.0	1.45	150
BPDH00070730220□00	22	20,30	100	0.174	1.7	1.2	220
BPDH00070730330□00	33	20,30	100	0.250	1.5	1.1	330

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000303121R5□00	1.5	30	100	0.068	0.90	1.48	1R5
BPDL000303122R2□00	2.2	30	100	0.098	0.78	1.27	2R2
BPDL000303123R3□00	3.3	30	100	0.123	0.60	1.02	3R3
BPDL000303124R7□00	4.7	20,30	100	0.17	0.50	0.88	4R7
BPDL000303126R8□00	6.8	30	100	0.26	0.44	0.80	6R8
BPDL00030312100□00	10	20,30	100	0.40	0.35	0.65	100
BPDL00030312150□00	15	20,30	100	0.52	0.31	0.60	150
BPDL00030312220□00	22	20,30	100	0.67	0.27	0.55	220
BPDL00030312330□00	33	20,30	100	1.00	0.22	0.40	330

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000303202R2□00	2.2	20,30	100	0.041	0.85	2.3	2R2
BPDL000303203R3□00	3.3	20,30	100	0.054	0.75	2.1	3R3
BPDL000303204R7□00	4.7	30	100	0.078	0.63	1.65	4R7
BPDL000303206R8□00	6.8	30	100	0.106	0.52	1.32	6R8
BPDL00030320100□00	10	20,30	100	0.18	0.43	1.00	100
BPDL00030320150□00	15	30	100	0.22	0.35	0.80	150
BPDL00030320220□00	22	20,30	100	0.32	0.30	0.68	220
BPDL00030320330□00	33	20,30	100	0.46	0.24	0.56	330
BPDL00030320470□00	47	20,30	100	0.66	0.20	0.48	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDL000404151R2□00	1.2	30	100	0.038	1.50	2.7	1R2
BPDL000404151R5□00	1.5	30	100	0.048	1.35	2.4	1R5
BPDL000404152R0□00	2.0	30	100	0.055	1.15	2.2	2R0
BPDL000404152R2□00	2.2	20,30	100	0.055	1.15	2.2	2R2
BPDL000404152R5□00	2.5	30	100	0.068	1.05	1.9	2R5
BPDL000404153R0□00	3.0	30	100	0.077	0.95	1.6	3R0
BPDL000404153R9□00	3.9	30	100	0.096	0.80	1.5	3R9
BPDL000404154R5□00	4.5	30	100	0.105	0.75	1.45	4R5
BPDL000404155R6□00	5.6	30	100	0.159	0.70	1.10	5R6
BPDL000404156R8□00	6.8	30	100	0.173	0.60	1.05	6R8
BPDL00040415100□00	10	20,30	100	0.220	0.50	1.00	100
BPDL00040415120□00	12	20,30	100	0.270	0.45	0.80	120
BPDL00040415150□00	15	20,30	100	0.302	0.40	0.75	150
BPDL00040415220□00	22	20,30	100	0.447	0.35	0.60	220
BPDL00040415330□00	33	20,30	100	0.848	0.30	0.40	330
BPDL00040415470□00	47	20,30	100	1.080	0.25	0.35	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404152R2□00	2.2	25,30	100	0.055	1.15	2.2	2R2
BPDN000404154R7□00	4.7	25,30	100	0.105	0.75	1.45	4R7

Note: When ordering, please specify tolerance code. Tolerance: Y=±25% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404231R0□00	1.0	25	100	0.025	2.8	3.1	1R0
BPDN000404231R5□00	1.5	25	100	0.029	2.2	2.9	1R5
BPDN000404232R2□00	2.2	25	100	0.0383	1.8	2.5	2R2
BPDN000404233R3□00	3.3	25	100	0.0563	1.45	2.2	3R3
BPDN000404234R7□00	4.7	25	100	0.0688	1.30	1.9	4R7
BPDN000404235R6□00	5.6	25	100	0.075	1.10	1.8	5R6
BPDN000404236R8□00	6.8	25	100	0.0878	1.00	1.7	6R8
BPDN000404238R2□00	8.2	25	100	0.0948	0.95	1.6	8R2
BPDN00040423100□00	10	20,25	100	0.117	0.85	1.4	100
BPDN00040423150□00	15	20,25	100	0.119	0.70	0.85	150
BPDN00040423220□00	22	20,25	100	0.270	0.55	0.75	220
BPDN00040423330□00	33	20,25	100	0.381	0.50	0.60	330
BPDN00040423470□00	47	20,25	100	0.546	0.35	0.55	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDN000404301R0□00	1.0	30	100	0.021	3.7	5.2	1R0
BPDN000404302R2□00	2.2	30	100	0.045	2.5	2.2	2R2
BPDN000404303R3□00	3.3	30	100	0.0721	2.0	1.85	3R3
BPDN000404304R7□00	4.7	30	100	0.0883	1.65	1.62	4R7
BPDN000404306R8□00	6.8	30	100	0.119	1.24	1.32	6R8
BPDN00040430100□00	10	30	100	0.145	1.05	1.18	100
BPDN00040430150□00	15	30	100	0.213	0.90	1.02	150
BPDN00040430220□00	22	30	100	0.335	0.76	0.74	220
BPDN00040430330□00	33	30	100	0.481	0.58	0.63	330
BPDN00040430470□00	47	30	100	0.599	0.48	0.56	470

Note: When ordering, please specify tolerance code. Tolerance: T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000404162R2□00	2.2	20,30	100	0.072	1.2	2R2
BPDR000404163R3□00	3.3	30	100	0.085	1.1	3R3
BPDR000404164R7□00	4.7	20,30	100	0.105	0.9	4R7
BPDR000404166R2□00	6.2	30	100	0.16	0.8	6R2
BPDR000404166R8□00	6.8	20,30	100	0.17	0.73	6R8
BPDR000404168R2□00	8.2	30	100	0.20	0.65	8R2
BPDR00040416100□00	10	20,30	100	0.21	0.55	100
BPDR00040416150□00	15	20,30	100	0.295	0.45	150
BPDR00040416220□00	22	20,30	100	0.43	0.40	220
BPDR00040416330□00	33	20,30	100	0.675	0.32	330
BPDR00040416390□00	39	20,30	100	0.82	0.26	390
BPDR00040416470□00	47	20,30	100	0.99	0.24	470
BPDR00040416680□00	68	20,30	100	1.1	0.22	680
BPDR00040416101□00	100	20,30	100	2.2	0.17	101
BPDR00040416221□00	220	20,30	100	4.0	0.15	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505201R0□00	1.0	30	100	0.045	1.72	1R0
BPDR000505202R2□00	2.2	30	100	0.075	1.32	2R2
BPDR000505202R7□00	2.7	30	100	0.105	1.28	2R7
BPDR000505203R3□00	3.3	30	100	0.110	1.04	3R3
BPDR000505203R9□00	3.9	30	100	0.155	0.88	3R9
BPDR000505204R7□00	4.7	20,30	100	0.162	0.84	4R7
BPDR000505205R6□00	5.6	20,30	100	0.170	0.80	5R6
BPDR000505206R8□00	6.8	20,30	100	0.200	0.76	6R8
BPDR000505208R2□00	8.2	20,30	100	0.245	0.68	8R2
BPDR00050520100□00	10	20,30	100	0.260	0.61	100
BPDR00050520120□00	12	20,30	100	0.280	0.56	120
BPDR00050520150□00	15	20,30	100	0.310	0.50	150
BPDR00050520180□00	18	20,30	100	0.338	0.48	180
BPDR00050520220□00	22	20,30	100	0.397	0.41	220
BPDR00050520270□00	27	20,30	100	0.441	0.35	270
BPDR00050520330□00	33	20,30	100	0.694	0.32	330
BPDR00050520390□00	39	20,30	100	0.709	0.30	390
BPDR00050520101□00	100	20,30	100	1.4	0.20	101
BPDR00050520221□00	220	20,30	100	2.4	0.15	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000505301R0□00	1.0	30	100	0.0236	2.56	1R0
BPDR000505301R2□00	1.2	30	100	0.0236	2.56	1R2
BPDR000505301R8□00	1.8	20,30	100	0.0275	2.20	1R8
BPDR000505302R2□00	2.2	20,30	100	0.0313	2.04	2R2
BPDR000505302R7□00	2.7	30	100	0.0433	1.60	2R7
BPDR000505303R3□00	3.3	20,30	100	0.0492	1.57	3R3
BPDR000505303R9□00	3.9	30	100	0.0648	1.44	3R9
BPDR000505304R7□00	4.7	20,30	100	0.0720	1.32	4R7
BPDR000505305R6□00	5.6	20,30	100	0.1009	1.17	5R6
BPDR000505306R8□00	6.8	20,30	100	0.1089	1.12	6R8
BPDR000505308R2□00	8.2	20,30	100	0.1175	1.04	8R2
BPDR00050530100□00	10	20,30	100	0.1283	1.00	100
BPDR00050530120□00	12	20,30	100	0.1316	0.84	120
BPDR00050530150□00	15	20,30	100	0.149	0.76	150
BPDR00050530180□00	18	20,30	100	0.166	0.72	180
BPDR00050530220□00	22	20,30	100	0.235	0.70	220
BPDR00050530270□00	27	20,30	100	0.261	0.58	270
BPDR00050530330□00	33	20,30	100	0.3313	0.56	330
BPDR00050530390□00	39	20,30	100	0.3837	0.50	390
BPDR00050530470□00	47	20,30	100	0.587	0.48	470
BPDR00050530560□00	56	20,30	100	0.6245	0.41	560
BPDR00050530680□00	68	20,30	100	0.699	0.35	680
BPDR00050530820□00	82	20,30	100	0.9148	0.32	820
BPDR00050530101□00	100	10,20	100	1.02	0.29	101
BPDR00050530121□00	120	10,20	100	1.27	0.27	121
BPDR00050530151□00	150	10,20	100	1.35	0.24	151
BPDR00050530181□00	180	10,20	100	1.54	0.22	181
BPDR00050530271□00	270	20,30	100	3.00	0.16	271

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606204R1□00	4.1	30	100	0.057	1.95	4R1
BPDR000606205R4□00	5.4	30	100	0.076	1.60	5R4
BPDR000606206R2□00	6.2	20,30	100	0.096	1.40	6R2
BPDR000606206R8□00	6.8	20,30	100	0.096	1.40	6R8
BPDR000606208R9□00	8.9	20,30	100	0.116	1.25	8R9
BPDR00060620100□00	10	20,30	100	0.124	1.20	100
BPDR00060620120□00	12	20,30	100	0.153	1.10	120
BPDR00060620150□00	15	20,30	100	0.196	0.97	150
BPDR00060620180□00	18	20,30	100	0.21	0.85	180
BPDR00060620220□00	22	20,30	100	0.29	0.80	220
BPDR00060620270□00	27	20,30	100	0.33	0.75	270
BPDR00060620330□00	33	20,30	100	0.385	0.65	330
BPDR00060620390□00	39	20,30	100	0.52	0.57	390
BPDR00060620470□00	47	20,30	100	0.595	0.54	470
BPDR00060620560□00	56	20,30	100	0.665	0.50	560
BPDR00060620680□00	68	20,30	100	0.84	0.43	680
BPDR00060620820□00	82	20,30	100	0.978	0.41	820
BPDR00060620101□00	100	10,20	100	1.2	0.36	101

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000606301R0□00	1.0	30	100	0.012	3.7	1R0
BPDR000606301R2□00	1.2	30	100	0.013	3.5	1R2
BPDR000606302R2□00	2.2	30	100	0.018	2.8	2R2
BPDR000606302R5□00	2.5	30	100	0.018	2.6	2R5
BPDR000606302R7□00	2.7	30	100	0.018	2.6	2R7
BPDR000606303R0□00	3.0	30	100	0.024	2.4	3R0
BPDR000606303R3□00	3.3	20,30	100	0.024	2.4	3R3
BPDR000606303R9□00	3.9	30	100	0.031	2.2	3R9
BPDR000606304R2□00	4.2	30	100	0.031	2.2	4R2
BPDR000606304R7□00	4.7	20,30	100	0.035	2.0	4R7
BPDR000606305R3□00	5.3	30	100	0.038	1.9	5R3
BPDR000606306R2□00	6.2	20,30	100	0.045	1.8	6R2
BPDR000606306R6□00	6.6	20,30	100	0.045	1.8	6R6
BPDR000606308R2□00	8.2	20,30	100	0.053	1.6	8R2
BPDR00060630100□00	10	20,30	100	0.065	1.3	100
BPDR00060630120□00	12	20,30	100	0.076	1.2	120
BPDR00060630150□00	15	20,30	100	0.103	1.1	150
BPDR00060630180□00	18	20,30	100	0.110	1.0	180
BPDR00060630220□00	22	20,30	100	0.112	0.9	220
BPDR00060630270□00	27	20,30	100	0.175	0.85	270
BPDR00060630330□00	33	20,30	100	0.189	0.75	330
BPDR00060630390□00	39	20,30	100	0.212	0.7	390
BPDR00060630470□00	47	20,30	100	0.250	0.62	470
BPDR00060630560□00	56	20,30	100	0.305	0.58	560
BPDR00060630680□00	68	20,30	100	0.355	0.52	680
BPDR00060630820□00	82	20,30	100	0.463	0.46	820
BPDR00060630101□00	100	20,30	100	0.52	0.42	101
BPDR00060630151□00	150	20,30	100	1.05	0.35	151
BPDR00060630181□00	180	20,30	100	1.55	0.32	181
BPDR00060630221□00	220	20,30	100	1.90	0.28	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000606551R5□00	1.5	20,30	100	0.0103	5.5	6.3	1R5
BPDR000606552R2□00	2.2	30	100	0.0170	4.5	5.0	2R2
BPDR000606553R3□00	3.3	20,30	100	0.0222	3.5	4.3	3R3
BPDR000606554R7□00	4.7	20,30	100	0.0261	3.0	4.0	4R7
BPDR000606556R8□00	6.8	20,30	100	0.0355	2.5	3.5	6R8
BPDR00060655100□00	10	20,30	100	0.0666	1.7	2.3	100
BPDR00060655101□00	100	30	100	0.358	0.65	0.85	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707301R2□00	1.2	30	100	0.014	4.5	1R2
BPDR000707301R5□00	1.5	30	100	0.015	4.0	1R5
BPDR000707302R2□00	2.2	20,30	100	0.020	3.5	2R2
BPDR000707303R0□00	3.0	30	100	0.024	3.0	3R0
BPDR000707303R3□00	3.3	30	100	0.025	3.0	3R3
BPDR000707303R6□00	3.6	30	100	0.027	2.6	3R6
BPDR000707303R9□00	3.9	30	100	0.027	2.6	3R9
BPDR000707304R7□00	4.7	20,30	100	0.030	2.5	4R7
BPDR000707305R0□00	5.0	30	100	0.031	2.4	5R0
BPDR000707306R0□00	6.0	30	100	0.035	2.25	6R0
BPDR000707306R8□00	6.8	30	100	0.054	2.1	6R8
BPDR000707307R3□00	7.3	30	100	0.054	2.1	7R3
BPDR000707308R6□00	8.6	30	100	0.058	1.85	8R6
BPDR000707309R0□00	9.0	20,30	100	0.058	1.85	9R0
BPDR00070730100□00	10	20,30	100	0.065	1.7	100
BPDR00070730120□00	12	20,30	100	0.070	1.55	120
BPDR00070730150□00	15	20,30	100	0.084	1.4	150
BPDR00070730180□00	18	20,30	100	0.095	1.32	180
BPDR00070730220□00	22	20,30	100	0.128	1.2	220
BPDR00070730270□00	27	20,30	100	0.142	1.05	270
BPDR00070730330□00	33	20,30	100	0.165	0.97	330
BPDR00070730390□00	39	20,30	100	0.210	0.86	390
BPDR00070730470□00	47	20,30	100	0.238	0.80	470
BPDR00070730560□00	56	20,30	100	0.277	0.73	560
BPDR00070730680□00	68	20,30	100	0.304	0.65	680
BPDR00070730820□00	82	20,30	100	0.390	0.60	820
BPDR00070730101□00	100	20,30	100	0.535	0.54	101
BPDR00070730151□00	150	20,30	100	0.72	0.40	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPDR000707401R0□00	1.0	30	100	0.010	4.5	1R0
BPDR000707401R5□00	1.5	30	100	0.011	4.3	1R5
BPDR000707402R2□00	2.2	30	100	0.015	4.0	2R2
BPDR000707403R3□00	3.3	20,30	100	0.020	3.5	3R3
BPDR000707403R8□00	3.	30	100	0.020	3.5	3R8
BPDR000707405R0□00	5.0	30	100	0.024	2.9	5R0
BPDR000707406R2□00	6.2	30	100	0.027	2.5	6R2
BPDR000707406R8□00	6.8	20,30	100	0.027	2.4	6R8
BPDR000707407R4□00	7.4	30	100	0.031	2.3	7R4
BPDR000707408R2□00	8.2	30	100	0.034	2.2	8R2
BPDR000707408R7□00	8.7	30	100	0.034	2.2	8R7
BPDR00070740100□00	10	20,30	100	0.038	2.0	100
BPDR00070740120□00	12	20,30	100	0.053	1.7	120
BPDR00070740150□00	15	20,30	100	0.057	1.6	150
BPDR00070740180□00	18	20,30	100	0.092	1.5	180
BPDR00070740220□00	22	20,30	100	0.096	1.3	220
BPDR00070740270□00	27	20,30	100	0.109	1.2	270
BPDR00070740330□00	33	20,30	100	0.124	1.1	330
BPDR00070740390□00	39	20,30	100	0.138	1.0	390
BPDR00070740470□00	47	20,30	100	0.155	0.95	470
BPDR00070740560□00	56	20,30	100	0.202	0.85	560
BPDR00070740680□00	68	20,30	100	0.234	0.75	680
BPDR00070740820□00	82	20,30	100	0.324	0.70	820
BPDR00070740101□00	100	10,20,30	100	0.358	0.65	101
BPDR00070740221□00	220	20,30	100	1.50	0.45	221
BPDR00070740331□00	330	20,30	100	1.55	0.35	331

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Rated Current：Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808302R5□00	2.5	30	100	0.0156	4.5	6.4	2R5
BPDR000808303R3□00	3.3	20,30	100	0.0182	4.0	6.0	3R3
BPDR000808303R6□00	3.6	20,30	100	0.0240	3.8	4.6	3R6
BPDR000808304R7□00	4.7	20,30	100	0.0247	3.4	4.5	4R7
BPDR000808307R3□00	7.3	30	100	0.039	2.8	3.4	7R3
BPDR00080830100□00	10	20,30	100	0.047	2.5	3.2	100
BPDR00080830150□00	15	20,30	100	0.069	1.9	2.35	150
BPDR00080830220□00	22	20,30	100	0.099	1.6	1.85	220
BPDR00080830330□00	33	20,30	100	0.156	1.3	1.45	330
BPDR00080830470□00	47	20,30	100	0.195	1.15	1.30	470
BPDR00080830680□00	68	20,30	100	0.286	0.92	0.98	680
BPDR00080830101□00	100	20,30	100	0.430	0.75	0.80	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
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- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808401R8□00	1.8	30	100	0.0156	7.0	6.8	1R8
BPDR000808402R5□00	2.5	30	100	0.0175	6.5	6.0	2R5
BPDR000808403R5□00	3.5	30	100	0.024	5.0	5.2	3R5
BPDR000808404R7□00	4.7	20,30	100	0.029	4.6	4.4	4R7
BPDR000808406R0□00	6.0	20,30	100	0.032	4.2	4.0	6R0
BPDR00080840100□00	10	20,30	100	0.048	3.0	3.2	100
BPDR00080840150□00	15	20,30	100	0.067	2.75	2.5	150
BPDR00080840220□00	22	20,30	100	0.105	2.3	2.0	220
BPDR00080840330□00	33	20,30	100	0.157	1.75	1.6	330
BPDR00080840390□00	39	20,30	100	0.173	1.65	1.51	390
BPDR00080840470□00	47	20,30	100	0.189	1.52	1.42	470
BPDR00080840680□00	68	20,30	100	0.29	1.3	1.08	680
BPDR00080840101□00	100	20,30	100	0.41	1.05	0.88	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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- Irms for a 40℃ temperature rise from 25℃ ambient with current
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDR000808451R0□00	1.0	30	100	0.0122	8.0	6.2	1R0
BPDR000808451R2□00	1.2	30	100	0.0122	8.0	6.2	1R2
BPDR000808452R0□00	2.0	30	100	0.014	7.0	5.5	2R0
BPDR000808452R2□00	2.2	30	100	0.016	6.8	5.0	2R2
BPDR000808453R6□00	3.6	20,30	100	0.019	5.9	4.5	3R3
BPDR000808453R9□00	3.9	30	100	0.019	5.9	4.5	3R9
BPDR000808454R7□00	4.7	20,30	100	0.022	5.6	4.1	4R7
BPDR000808456R8□00	6.8	20,30	100	0.025	4.4	3.9	6R8
BPDR000808458R2□00	8.2	20,30	100	0.033	4.2	3.6	8R2
BPDR00080845100□00	10	20,30	100	0.036	4.0	3.2	100
BPDR00080845150□00	15	20,30	100	0.062	2.9	2.3	150
BPDR00080845220□00	22	20,30	100	0.075	2.6	1.8	220
BPDR00080845330□00	33	20,30	100	0.125	2.2	1.4	330
BPDR00080845470□00	47	20,30	100	0.150	1.8	1.3	470
BPDR00080845560□00	56	20,30	100	0.225	1.65	1.2	560
BPDR00080845680□00	68	20,30	100	0.240	1.5	1.0	680
BPDR00080845101□00	100	20,30	100	0.360	1.3	0.8	101
BPDR00080845121□00	120	20,30	100	0.51	1.0	0.7	121
BPDR00080845221□00	220	20,30	100	1.00	0.6	0.6	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPDS000303161R5□00	1.5	30	100	0.063	1.80	2.0	1R5
BPDS000303161R8□00	1.8	30	100	0.075	1.65	1.8	1R8
BPDS000303162R2□00	2.2	20,25,30	100	0.094	1.50	1.6	2R2
BPDS000303162R7□00	2.7	20,30	100	0.106	1.35	1.4	2R7
BPDS000303163R3□00	3.3	30	100	0.125	1.2	1.24	3R3
BPDS000303163R9□00	3.9	30	100	0.138	1.1	1.12	3R9
BPDS000303164R7□00	4.7	20,30	100	0.169	1.0	1.00	4R7
BPDS000303165R6□00	5.6	20,30	100	0.188	0.95	0.98	5R6
BPDS000303166R8□00	6.8	30	100	0.213	0.85	0.92	6R8
BPDS000303168R2□00	8.2	30	100	0.281	0.80	0.80	8R2
BPDS00030316100□00	10	20,30	100	0.294	0.70	0.76	100
BPDS00030316120□00	12	20,30	100	0.394	0.62	0.64	120
BPDS00030316220□00	22	20,30	100	0.65	0.30	0.30	220
BPDS00030316330□00	33	20,30	100	1.00	0.24	0.24	330
BPDS00030316470□00	47	20,30	100	1.25	0.20	0.20	470
BPDS00030316101□00	100	20,30	100	2.40	0.12	0.12	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , Y=±25% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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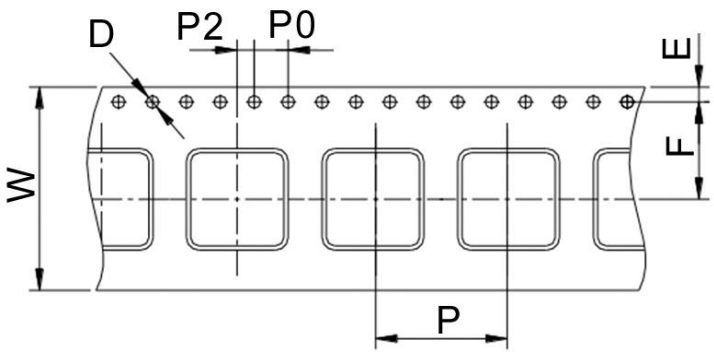
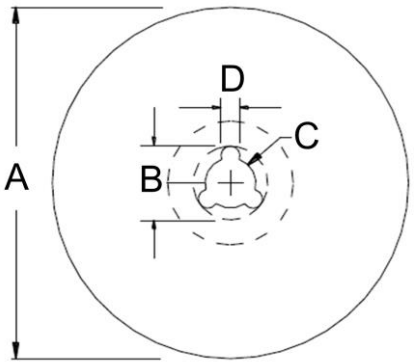
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPDC00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDL00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDS00030316	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDx00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDH00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPDx00040415	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDR00040416	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDH00040418	12	1.5	1.75	5.5	8	4	2	330	20	13	2	3500
BPDN00040423	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2500
BPDN00040430	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDx00050520	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDx00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDH00060618	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060620	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060630	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPDR00060655	16	1.5	1.75	7.5	12	4	2	330	20	13	2	900
BPDx00070730	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00070740	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00080830	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPDR00080840	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900
BPDR00080845	16	1.5	1.75	7.5	16	4	2	330	20	13	2	900

BPRR Series

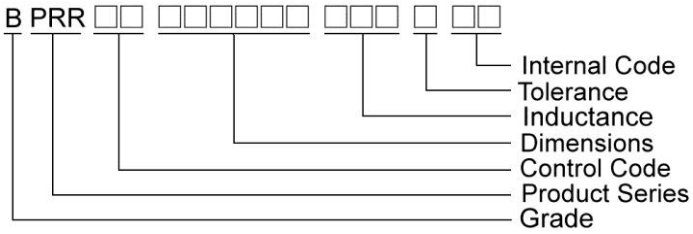
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

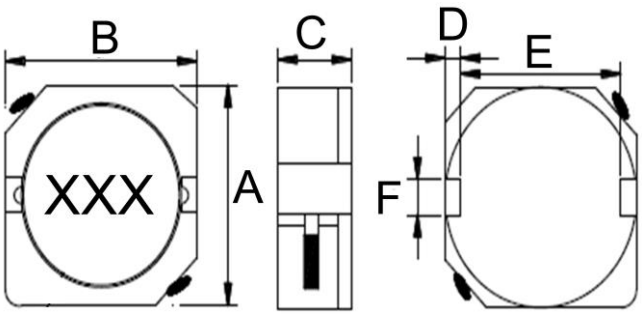
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

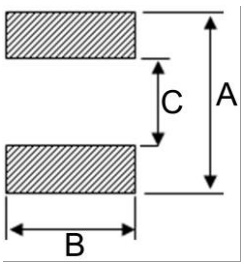
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPRR00101031	10±0.5	10.1±0.5	3.1Max	1.2	7.7	3	10.7	3.2	7.3
BPRR00101041	10±0.5	10.1±0.5	4.1Max	1.2	7.7	3	10.7	3.2	7.3
BPRR00101051	10±0.5	10.1±0.5	5.1Max	1.2	7.7	3	10.7	3.2	7.3

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR00101031R82□00	0.82	30	100	0.0090	9.5	7.0	R82
BPRR001010311R0□00	1.0	30	100	0.0110	8.0	5.8	1R0
BPRR001010311R5□00	1.5	30	100	0.0110	8.0	5.8	1R5
BPRR001010312R2□00	2.2	30	100	0.0169	6.7	5.1	2R2
BPRR001010313R3□00	3.3	30	100	0.021	5.56	4.7	3R3
BPRR001010313R6□00	3.6	30	100	0.021	5.56	4.7	3R6
BPRR001010314R7□00	4.7	20,30	100	0.030	4.65	4.0	4R7
BPRR001010315R6□00	5.6	20,30	100	0.033	4.30	3.8	5R6
BPRR001010316R8□00	6.8	20,30	100	0.035	3.84	3.6	6R8
BPRR001010318R2□00	8.2	30	100	0.050	3.54	3.0	8R2
BPRR00101031100□00	10	20,30	100	0.059	3.18	2.8	100
BPRR00101031150□00	15	20,30	100	0.091	2.60	2.05	150
BPRR00101031220□00	22	20,30	100	0.143	2.16	1.60	220
BPRR00101031270□00	27	20,30	100	0.180	1.80	1.40	270
BPRR00101031330□00	33	20,30	100	0.202	1.74	1.35	330
BPRR00101031390□00	39	20,30	100	0.250	1.60	1.30	390
BPRR00101031470□00	47	20,30	100	0.299	1.43	1.20	470
BPRR00101031560□00	56	20,30	100	0.325	1.36	1.15	560
BPRR00101031680□00	68	20,30	100	0.429	1.22	0.95	680
BPRR00101031820□00	82	20,30	100	0.494	1.14	0.80	820
BPRR00101031101□00	100	10,20	100	0.683	1.02	0.70	101
BPRR00101031121□00	120	10,20	100	0.754	0.89	0.65	121
BPRR00101031151□00	150	10,20	100	0.871	0.84	0.51	151
BPRR00101031221□00	220	10,20	100	1.20	0.49	0.50	221

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR00101031150□A0	15	20,30	100	0.089	3.4	2.2	150
BPRR00101031330□A0	33	20,30	100	0.18	2.7	1.3	330
BPRR00101031470□A0	47	20,30	100	0.24	2.0	1.0	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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BPRR001010411R0□00	1.0	30	100	0.0065	10.5	6.8	1R0
BPRR001010411R5□00	1.5	30	100	0.0081	10.0	6.5	1R5
BPRR001010412R2□00	2.2	20,30	100	0.0105	7.5	6.1	2R2
BPRR001010412R5□00	2.5	20,30	100	0.0105	7.5	6.1	2R5
BPRR001010413R3□00	3.3	20,30	100	0.013	6.0	5.5	3R3
BPRR001010413R8□00	3.8	20,30	100	0.013	6.0	5.5	3R8
BPRR001010413R9□00	3.9	20,30	100	0.013	6.0	5.5	3R9
BPRR001010414R4□00	4.4	30	100	0.022	5.8	5.4	4R4
BPRR001010414R7□00	4.7	20,30	100	0.022	5.8	5.4	4R7
BPRR001010415R2□00	5.2	20,30	100	0.022	5.5	5.4	5R2
BPRR001010416R2□00	6.2	30	100	0.027	5.0	4.5	6R2
BPRR001010416R8□00	6.8	20,30	100	0.027	4.8	4.5	6R8
BPRR001010417R0□00	7.0	20,30	100	0.027	4.8	4.5	7R0
BPRR001010418R2□00	8.2	20,30	100	0.030	4.5	4.2	8R2
BPRR00101041100□00	10	20,30	100	0.035	4.4	3.8	100
BPRR00101041110□00	11	20,30	100	0.040	4.0	3.6	110
BPRR00101041120□00	12	20,30	100	0.046	3.7	3.4	120
BPRR00101041150□00	15	20,30	100	0.050	3.6	3.1	150
BPRR00101041180□00	18	20,30	100	0.069	3.1	2.6	180
BPRR00101041220□00	22	20,30	100	0.073	2.9	2.5	220
BPRR00101041270□00	27	20,30	100	0.088	2.6	2.3	270
BPRR00101041330□00	33	20,30	100	0.093	2.3	2.2	330
BPRR00101041390□00	39	20,30	100	0.127	2.2	2.0	390
BPRR00101041470□00	47	20,30	100	0.128	2.1	1.9	470
BPRR00101041560□00	56	20,30	100	0.188	1.65	1.5	560
BPRR00101041680□00	68	20,30	100	0.213	1.50	1.42	680
BPRR00101041820□00	82	20,30	100	0.283	1.45	1.30	820
BPRR00101041101□00	100	10,20	100	0.304	1.35	1.25	101
BPRR00101041121□00	120	10,20	100	0.375	1.20	1.08	121
BPRR00101041151□00	150	10,20	100	0.506	1.15	0.85	151
BPRR00101041181□00	180	10,20	100	0.568	1.00	0.75	181
BPRR00101041221□00	220	10,20	100	0.756	0.92	0.70	221
BPRR00101041271□00	270	10,20	100	0.853	0.84	0.55	271
BPRR00101041331□00	330	10,20	100	1.09	0.70	0.52	331
BPRR00101041471□00	470	10,20	100	1.49	0.55	0.48	471

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010411R0□A0	1.0	30	100	0.0055	12	8.8	1R0
BPRR001010411R2□A0	1.2	30	100	0.0055	12	8.8	1R2
BPRR001010411R5□A0	1.5	30	100	0.0066	11	8.4	1R5
BPRR001010411R8□A0	1.8	30	100	0.0072	10.4	8.2	1R8
BPRR001010412R0□A0	2.0	30	100	0.0072	10.4	8.2	2R0
BPRR001010412R2□A0	2.2	20,30	100	0.0072	10.4	8.2	2R2
BPRR001010413R3□A0	3.3	30	100	0.0103	8.0	7.2	3R3
BPRR001010414R7□A0	4.7	30	100	0.0120	5.7	6.5	4R7
BPRR001010415R6□A0	5.6	20,30	100	0.0192	5.5	5.4	5R6
BPRR001010416R8□A0	6.8	20,30	100	0.0204	4.8	5.1	6R8
BPRR00101041100□A0	10	20,30	100	0.0288	4.30	4.3	100
BPRR00101041150□A0	15	20,30	100	0.0445	4.15	3.5	150
BPRR00101041220□A0	22	20,30	100	0.0663	4.0	2.8	220
BPRR00101041330□A0	33	20,30	100	0.101	3.5	2.3	330
BPRR00101041390□A0	39	20,30	100	0.14	3.2	2.1	390
BPRR00101041470□A0	47	20,30	100	0.17	2.8	2.0	470
BPRR00101041560□A0	56	20,30	100	0.20	2.3	1.9	560
BPRR00101041680□A0	68	20	100	0.24	2.1	1.8	680
BPRR00101041101□A0	100	20	100	0.28	1.7	1.7	101
BPRR00101041121□A0	120	20	100	0.33	1.6	1.5	121
BPRR00101041151□A0	150	20	100	0.40	1.4	1.4	151
BPRR00101041331□A0	330	20	100	1.10	0.9	0.7	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010511R2□00	1.2	30	100	0.0058	10.5	8.3	1R2
BPRR001010511R5□00	1.5	30	100	0.0058	10.5	8.3	1R5
BPRR001010511R8□00	1.8	30	100	0.0072	9.25	7.5	1R8
BPRR001010512R2□00	2.2	20,30	100	0.0072	9.25	7.5	2R2
BPRR001010513R3□00	3.3	30	100	0.0104	7.8	6.5	3R3
BPRR001010514R7□00	4.7	20,30	100	0.0123	6.4	6.1	4R7
BPRR001010516R8□00	6.8	20,30	100	0.018	5.4	5.4	6R8
BPRR001010518R2□00	8.2	20,30	100	0.020	4.85	5.0	8R2
BPRR00101051100□00	10	20,30	100	0.026	4.45	4.5	100
BPRR00101051120□00	12	20,30	100	0.033	4.0	3.8	120
BPRR00101051150□00	15	20,30	100	0.041	3.6	3.4	150
BPRR00101051180□00	18	20,30	100	0.046	3.2	3.1	180
BPRR00101051220□00	22	20,30	100	0.061	2.95	2.9	220
BPRR00101051270□00	27	20,30	100	0.069	2.7	2.6	270
BPRR00101051330□00	33	20,30	100	0.084	2.4	2.5	330
BPRR00101051390□00	39	20,30	100	0.106	2.3	2.25	390
BPRR00101051470□00	47	20,30	100	0.130	2.0	2.0	470
BPRR00101051560□00	56	20,30	100	0.149	1.9	1.9	560
BPRR00101051680□00	68	20,30	100	0.201	1.65	1.6	680
BPRR00101051820□00	82	20,30	100	0.227	1.5	1.45	820
BPRR00101051101□00	100	10,20	100	0.253	1.35	1.35	101
BPRR00101051121□00	120	10,20	100	0.303	1.28	1.18	121
BPRR00101051151□00	150	10,20,30	100	0.370	1.12	1.10	151
BPRR00101051181□00	180	10,20	100	0.419	1.04	1.00	181
BPRR00101051221□00	220	10,20	100	0.500	0.94	0.94	221
BPRR00101051271□00	270	10,20	100	0.672	0.84	0.80	271
BPRR00101051331□00	330	10,20	100	0.812	0.75	0.73	331
BPRR00101051391□00	390	10,20	100	0.953	0.70	0.70	391
BPRR00101051471□00	470	10,20	100	1.289	0.60	0.54	471
BPRR00101051561□00	560	10,20	100	1.430	0.54	0.52	561
BPRR00101051681□00	680	10,20	100	1.599	0.52	0.51	681
BPRR00101051821□00	820	10,20	100	1.768	0.50	0.48	821
BPRR00101051102□00	1000	10,20	100	1.989	0.48	0.42	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPRR001010511R0□A0	1.0	30	100	0.0072	18	12	1R0
BPRR001010511R2□A0	1.2	30	100	0.0098	15	10	1R2
BPRR001010511R3□A0	1.3	20,30	100	0.0098	15	15	1R3
BPRR001010511R5□A0	1.5	30	100	0.0098	15	10	1R5
BPRR001010511R8□A0	1.8	30	100	0.0107	12.8	9.1	1R8
BPRR001010512R2□A0	2.2	30	100	0.0120.	10.0	8.0	2R2
BPRR001010512R5□A0	2.5	30	100	0.0120	10.0	8.0	2R5
BPRR001010513R3□A0	3.5	30	100	0.0155	7.0	6.5	3R3
BPRR001010513R5□A0	2.2	20,30	100	0.0155	7.0	6.5	3R5
BPRR001010514R7□A0	4.7	20,30	100	0.0160	6.5	6.0	4R7
BPRR001010515R6□A0	5.6	20,30	100	0.0178	6.4	5.6	5R6
BPRR001010516R8□A0	6.8	20,30	100	0.018	6.3	5.4	6R8
BPRR001010518R2□A0	8.2	20,30	100	0.020	6.1	5.2	8R2
BPRR00101051100□A0	10	20,30	100	0.026	6.0	4.3	100
BPRR00101051120□A0	12	20,30	100	0.033	4.5	3.9	120
BPRR00101051150□A0	15	20,30	100	0.041	4.2	3.3	150
BPRR00101051180□A0	18	20,30	100	0.046	3.8	3.1	180
BPRR00101051220□A0	22	20,30	100	0.061	3.4	3.0	220
BPRR00101051270□A0	27	20,30	100	0.069	3.3	2.8	270
BPRR00101051330□A0	33	20,30	100	0.084	2.8	2.6	330
BPRR00101051390□A0	39	20,30	100	0.106	2.65	2.4	390
BPRR00101051470□A0	47	20,30	100	0.130	2.5	2.2	470
BPRR00101051560□A0	56	20,30	100	0.149	2.3	2.0	560
BPRR00101051680□A0	68	20,30	100	0.201	2.1	1.7	680
BPRR00101051820□A0	82	20,30	100	0.227	1.8	1.5	820
BPRR00101051101□A0	100	20,30	100	0.253	1.6	1.4	101
BPRR00101051121□A0	120	20,30	100	0.303	1.5	1.3	121
BPRR00101051151□A0	150	20,30	100	0.35	1.4	1.2	151
BPRR00101051181□A0	180	20,30	100	0.40	1.3	1.1	181
BPRR00101051221□A0	220	20,30	100	0.50	1.0	1.0	221
BPRR00101051102□A0	1000	20	100	1.88	0.5	0.55	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

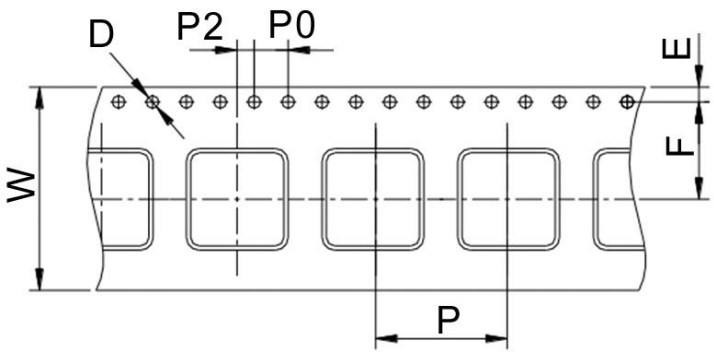
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

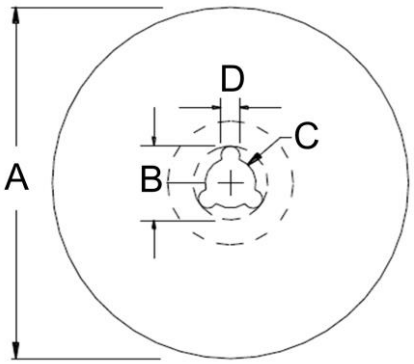
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPRR00101031	24	1.5	1.75	11.5	16	4	2	330	20	13	2	1000
BPRR00101041	24	1.5	1.75	11.5	16	4	2	330	20	13	2	900
BPRR00101051	24	1.5	1.75	11.5	16	4	2	330	20	13	2	700

BPCI Series

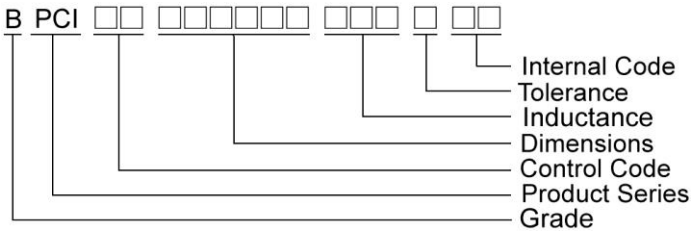
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

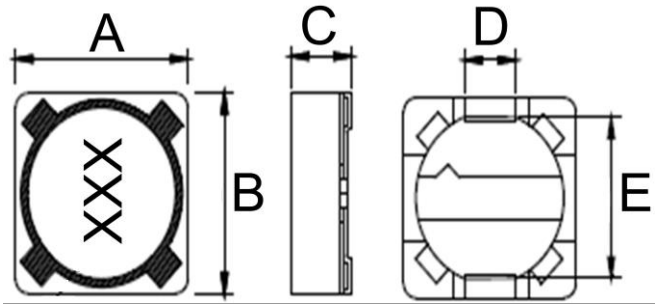
Applications

- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

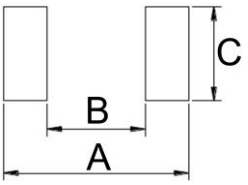
Product Identification



Shape and Dimensions



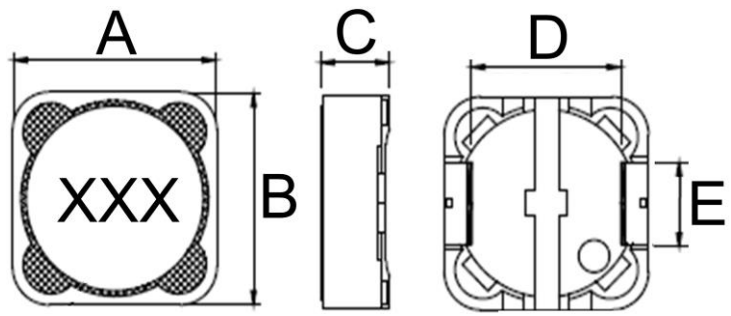
Recommended Pattern



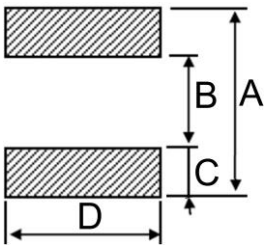
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern		
	A	B	C	D	E	A	B	C
BPCI00070746-00	7.3±0.5	7.3±0.5	4.6Max	2	5.4	8.0	4.8	2.4
BPCI00070746-A0	7.3±0.5	7.3±0.5	4.6Max	2	5.0	8.0	4.8	2.4

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPCI00121250	12±0.5	12±0.5	5.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121260	12±0.5	12±0.5	6.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121280	12±0.5	12±0.5	8.0Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4
BPCI00121210	12±0.5	12±0.5	10Max	7.6±0.3	5.0±0.2	12.6	7.0	2.8	5.4

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI00070746R33□00	0.33	30	100	0.0087	8.5	R33
BPCI00070746R47□00	0.47	30	100	0.0109	8	R47
BPCI000707461R0□00	1.0	30	100	0.0111	6.8	1R0
BPCI000707461R2□00	1.2	30	100	0.0111	6.8	1R2
BPCI000707461R5□00	1.5	30	100	0.0134	5.7	1R5
BPCI000707461R8□00	1.8	30	100	0.0147	5.0	1R8
BPCI000707462R2□00	2.2	30	100	0.0147	5.0	2R2
BPCI000707463R3□00	3.3	20,30	100	0.0214	4.0	3R3
BPCI000707464R7□00	4.7	20,30	100	0.0310	3.4	4R7
BPCI000707465R6□00	5.6	20,30	100	0.0335	3.0	5R6
BPCI000707466R8□00	6.8	20,30	100	0.035	2.3	6R8
BPCI000707468R2□00	8.2	20,30	100	0.042	2.1	8R2
BPCI00070746100□00	10	20	100	0.049	1.84	100
BPCI00070746120□00	12	20	100	0.058	1.71	120
BPCI00070746150□00	15	20	100	0.081	1.47	150
BPCI00070746180□00	18	20	100	0.091	1.31	180
BPCI00070746220□00	22	20	100	0.11	1.23	220
BPCI00070746270□00	27	20	100	0.15	1.12	270
BPCI00070746330□00	33	20	100	0.20	0.96	330
BPCI00070746390□00	39	20	100	0.23	0.91	390
BPCI00070746470□00	47	20	100	0.26	0.88	470
BPCI00070746560□00	56	20	100	0.35	0.75	560
BPCI00070746680□00	68	20	100	0.38	0.69	680
BPCI00070746820□00	82	20	100	0.43	0.61	820
BPCI00070746101□00	100	20	100	0.61	0.60	101
BPCI00070746121□00	120	20	100	0.66	0.52	121
BPCI00070746151□00	150	20	100	0.88	0.46	151
BPCI00070746181□00	180	20	100	0.98	0.42	181
BPCI00070746221□00	220	20	100	1.17	0.36	221
BPCI00070746271□00	270	20	100	1.64	0.34	271
BPCI00070746331□00	330	20	100	1.86	0.32	331
BPCI00070746391□00	390	20	100	2.85	0.29	391
BPCI00070746471□00	470	20	100	3.01	0.26	471
BPCI00070746561□00	560	20	100	3.62	0.23	561
BPCI00070746681□00	680	20	100	4.63	0.22	681
BPCI00070746821□00	820	20	100	5.2	0.20	821
BPCI00070746102□00	1000	20	100	6.0	0.18	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 35% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI000707461R5□A0	1.5	30	100	0.0089	7.0	6.6	1R5
BPCI000707461R8□A0	1.8	30	100	0.0105	6.7	5.9	1R8
BPCI000707462R2□A0	2.2	30	100	0.0126	6.5	5.0	2R2
BPCI000707463R3□A0	3.3	20,30	100	0.0169	5.9	4.8	3R3
BPCI000707464R7□A0	4.7	20,30	100	0.0235	4.5	4.2	4R7
BPCI000707466R8□A0	6.8	20,30	100	0.0282	4.3	4.0	6R8
BPCI00070746100□A0	10	20,30	100	0.0489	3.2	3.0	100
BPCI00070746150□A0	15	20,30	100	0.0637	2.48	2.11	150
BPCI00070746220□A0	22	20,30	100	0.0925	2.13	1.75	220
BPCI00070746270□A0	27	20,30	100	0.115	1.95	1.59	270
BPCI00070746330□A0	33	20	100	0.143	1.73	1.41	330
BPCI00070746470□A0	47	20	100	0.216	1.41	1.15	470
BPCI00070746560□A0	56	20,30	100	0.260	1.30	1.14	560
BPCI00070746680□A0	68	20	100	0.291	1.20	1.12	680
BPCI00070746101□A0	100	20	100	0.383	0.99	0.86	101
BPCI00070746151□A0	150	20	100	0.58	0.83	0.80	151
BPCI00070746181□A0	180	20,30	100	0.77	0.80	0.73	181
BPCI00070746221□A0	220	20,30	100	0.92	0.78	0.65	221
BPCI00070746331□A0	330	20	100	1.41	0.54	0.45	331
BPCI00070746471□A0	470	20	100	2.44	0.49	0.40	471
BPCI00070746102□A0	1000	20	100	3.89	0.31	0.27	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212101R0□00	1.0	30	100	0.0055	19.9	11.6	1R0
BPCI001212101R8□00	1.8	30	100	0.0065	13.4	11.0	1R8
BPCI001212102R0□00	2.0	30	100	0.0070	12.9	10.7	2R0
BPCI001212102R2□00	2.2	20,30	100	0.0070	12.9	10.7	2R2
BPCI001212102R5□00	2.5	30	100	0.0080	12.16	10.3	2R5
BPCI001212103R5□00	3.5	30	100	0.0097	12.0	8.70	3R5
BPCI001212103R6□00	3.6	30	100	0.0100	12.0	8.70	3R6
BPCI001212104R7□00	4.7	20,30	100	0.0110	11.0	8.40	4R7
BPCI001212105R8□00	5.8	30	100	0.0113	10.5	7.60	5R8
BPCI001212106R8□00	6.8	20,30	100	0.0115	10.0	7.10	6R8
BPCI001212107R5□00	7.5	20,30	100	0.0140	8.48	6.80	7R5
BPCI001212108R2□00	8.2	20,30	100	0.0160	8.30	6.70	8R2
BPCI00121210100□00	10	20,30	100	0.0170	8.20	6.95	100
BPCI00121210120□00	12	20,30	100	0.0185	7.04	6.20	120
BPCI00121210150□00	15	20,30	100	0.025	5.80	5.22	150
BPCI00121210220□00	22	20,30	100	0.029	5.12	4.95	220
BPCI00121210330□00	33	20,30	100	0.053	4.25	3.60	330
BPCI00121210470□00	47	20,30	100	0.063	3.60	3.45	470
BPCI00121210560□00	56	20,30	100	0.068	2.85	2.95	560
BPCI00121210680□00	68	20,30	100	0.093	2.76	2.85	680
BPCI00121210820□00	82	30	100	0.099	2.62	2.60	820
BPCI00121210850□00	85	30	100	0.120	2.60	2.60	850
BPCI00121210101□00	100	20	100	0.126	2.31	2.45	101
BPCI00121210121□00	120	20	100	0.154	2.05	2.20	121
BPCI00121210151□00	150	20	100	0.174	1.80	1.90	151
BPCI00121210181□00	180	20	100	0.191	1.66	1.86	181
BPCI00121210221□00	220	20	100	0.246	1.64	1.72	221
BPCI00121210331□00	330	20	100	0.386	1.28	1.28	331
BPCI00121210391□00	390	20	100	0.440	1.20	1.27	391
BPCI00121210471□00	470	20	100	0.471	1.06	1.25	471
BPCI00121210561□00	560	20	100	0.650	1.01	0.98	561
BPCI00121210681□00	680	20	100	0.730	0.83	0.96	681
BPCI00121210821□00	820	20	100	0.824	0.81	0.94	821
BPCI00121210102□00	1000	20	100	1.22	0.70	0.78	102
BPCI00121210122□00	1200	20	100	1.33	0.64	0.79	122
BPCI00121210152□00	1500	20	100	1.99	0.56	0.58	152
BPCI00121210182□00	1800	20	100	2.18	0.48	0.54	182
BPCI00121210222□00	2200	20	100	2.58	0.43	0.52	222
BPCI00121210332□00	3300	20	100	4.6	0.30	0.40	332

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 25% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212106R8□A0	6.8	20,30	100	0.0140	12.8	8.4	6R8
BPCI00121210100□A0	10	20,30	100	0.0183	11.5	7.5	100
BPCI00121210150□A0	15	20,30	100	0.0280	8.6	6.0	150
BPCI00121210330□A0	33	20	100	0.0450	5.5	4.2	330
BPCI00121210470□A0	47	20	100	0.0600	4.5	3.8	470
BPCI00121210560□A0	56	20	100	0.0700	4.0	3.4	560
BPCI00121210680□A0	68	20	100	0.0885	3.6	3.2	680
BPCI00121210101□A0	100	20	100	0.110	3.1	2.5	101
BPCI00121210221□A0	220	20	100	0.270	2.5	1.8	221
BPCI00121210271□A0	270	20	100	0.330	2.1	1.6	271
BPCI00121210301□A0	300	20	100	0.340	1.8	1.45	301
BPCI00121210331□A0	330	20	100	0.340	1.8	1.45	331
BPCI00121210681□A0	680	20,30	100	0.675	1.6	1.25	681
BPCI00121210821□A0	820	20	100	1.00	1.1	0.85	821

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212503R0□00	3.0	20,30	100	0.015	7.0	3R0
BPCI001212503R3□00	3.3	30	100	0.015	7.0	3R3
BPCI001212503R9□00	3.9	30	100	0.015	6.5	3R9
BPCI001212504R2□00	4.2	30	100	0.016	6.5	4R2
BPCI001212504R7□00	4.7	20,30	100	0.018	5.7	4R7
BPCI001212506R8□00	6.8	20,30	100	0.023	4.9	6R8
BPCI001212508R2□00	8.2	30	100	0.026	4.6	8R2
BPCI00121250100□00	10	20,30	100	0.028	4.5	100
BPCI00121250120□00	12	20,30	100	0.038	4.0	120
BPCI00121250150□00	15	20,30	100	0.050	3.2	150
BPCI00121250180□00	18	20,30	100	0.057	3.1	180
BPCI00121250220□00	22	20,30	100	0.066	2.9	220
BPCI00121250270□00	27	20,30	100	0.080	2.8	270
BPCI00121250330□00	33	20,30	100	0.097	2.7	330
BPCI00121250390□00	39	20,30	100	0.132	2.1	390
BPCI00121250470□00	47	20,30	100	0.15	1.9	470
BPCI00121250560□00	56	20,30	100	0.19	1.8	560
BPCI00121250680□00	68	20,30	100	0.22	1.5	680
BPCI00121250820□00	82	20,30	100	0.26	1.3	820
BPCI00121250101□00	100	20,30	100	0.308	1.2	101
BPCI00121250121□00	120	20,30	100	0.38	1.1	121
BPCI00121250151□00	150	20,30	100	0.53	0.95	151
BPCI00121250181□00	180	20,30	100	0.62	0.85	181
BPCI00121250221□00	220	20,30	100	0.70	0.8	221
BPCI00121250271□00	270	20,30	100	0.87	0.6	271
BPCI00121250331□00	330	20,30	100	0.99	0.5	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212504R7□A0	4.7	20,30	100	0.017	9.0	7.0	4R7
BPCI001212505R6□A0	5.6	20,30	100	0.020	8.0	6.1	5R6
BPCI00121250100□A0	10	20,30	100	0.0307	6.5	5.0	100
BPCI00121250150□A0	15	20,30	100	0.0425	5.2	4.6	150
BPCI00121250180□A0	18	20,30	100	0.0450	4.9	4.5	180
BPCI00121250220□A0	22	20,30	100	0.0583	4.5	4.3	220
BPCI00121250330□A0	33	20,30	100	0.0845	3.6	3.0	330
BPCI00121250470□A0	47	20,30	100	0.15	3.0	2.5	470
BPCI00121250151□A0	150	20,30	100	0.37	1.7	1.6	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212802R4□00	2.4	30	100	0.015	6.5	2R4
BPCI001212602R7□00	2.7	30	100	0.015	6.5	2R7
BPCI001212603R3□00	3.3	20,30	100	0.017	6.0	3R3
BPCI001212603R9□00	3.9	30	100	0.018	5.7	3R9
BPCI001212604R7□00	4.7	20,30	100	0.020	5.0	4R7
BPCI001212606R8□00	6.8	30	100	0.023	4.3	6R8
BPCI001212608R2□00	8.2	20,30	100	0.024	4.2	8R2
BPCI00121260100□00	10	20,30	100	0.025	4.0	100
BPCI00121260120□00	12	20,30	100	0.027	3.5	120
BPCI00121260150□00	15	20,30	100	0.030	3.3	150
BPCI00121260180□00	18	20,30	100	0.034	3.0	180
BPCI00121260220□00	22	20,30	100	0.036	2.8	220
BPCI00121260270□00	27	20,30	100	0.051	2.3	270
BPCI00121260330□00	33	20,30	100	0.057	2.1	330
BPCI00121260390□00	39	20,30	100	0.068	2.0	390
BPCI00121260470□00	47	20,30	100	0.075	1.8	470
BPCI00121260560□00	56	20,30	100	0.11	1.7	560
BPCI00121260680□00	68	20,30	100	0.12	1.5	680
BPCI00121260820□00	82	20,30	100	0.14	1.4	820
BPCI00121260101□00	100	10,20	100	0.16	1.3	101
BPCI00121260121□00	120	10,20	100	0.17	1.1	121
BPCI00121260151□00	150	10,20	100	0.23	1.0	151
BPCI00121260181□00	180	10,20	100	0.29	0.9	181
BPCI00121260221□00	220	10,20	100	0.40	0.8	221
BPCI00121260271□00	270	10,20	100	0.46	0.75	271
BPCI00121260331□00	330	10,20	100	0.51	0.68	331
BPCI00121260391□00	390	10,20	100	0.69	0.65	391
BPCI00121260471□00	470	10,20	100	0.77	0.58	471
BPCI00121260561□00	560	10,20	100	0.86	0.54	561
BPCI00121260681□00	680	10,20	100	1.20	0.48	681
BPCI00121260821□00	820	10,20	100	1.34	0.43	821
BPCI00121260102□00	1000	10,20	100	1.53	0.40	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI001212801R0□00	1.0	30	100	0.0070	9.8	1R0
BPCI001212801R2□00	1.2	30	100	0.0070	9.8	1R2
BPCI001212802R2□00	2.2	20,30	100	0.0115	8.0	2R2
BPCI001212802R4□00	2.4	20,30	100	0.0115	8.0	2R4
BPCI001212802R5□00	2.5	20,30	100	0.0115	8.0	2R5
BPCI001212803R3□00	3.3	20,30	100	0.0135	7.5	3R3
BPCI001212803R5□00	3.5	20,30	100	0.0135	7.5	3R5
BPCI001212804R6□00	4.6	30	100	0.0158	6.8	4R6
BPCI001212804R7□00	4.7	20,30	100	0.0158	6.8	4R7
BPCI001212805R6□00	5.6	20,30	100	0.0176	6.6	5R6
BPCI001212806R1□00	6.1	20,30	100	0.0176	6.6	6R1
BPCI001212806R4□00	6.4	20,30	100	0.0190	6.3	6R4
BPCI001212806R8□00	6.8	20,30	100	0.0190	6.3	6R8
BPCI001212807R6□00	7.6	20,30	100	0.0200	5.9	7R6
BPCI00121280100□00	10	20,30	100	0.0216	5.4	100
BPCI00121280120□00	12	20,30	100	0.0243	4.9	120
BPCI00121280150□00	15	20,30	100	0.0270	4.5	150
BPCI00121280180□00	18	20,30	100	0.0392	3.9	180
BPCI00121280220□00	22	20,30	100	0.0432	3.6	220
BPCI00121280270□00	27	20,30	100	0.0459	3.4	270
BPCI00121280330□00	33	20,30	100	0.0648	3.0	330
BPCI00121280390□00	39	20,30	100	0.0729	2.75	390
BPCI00121280470□00	47	20,30	100	0.10	2.50	470
BPCI00121280560□00	56	20,30	100	0.11	2.35	560
BPCI00121280680□00	68	20,30	100	0.14	2.10	680
BPCI00121280750□00	75	20,30	100	0.15	2.00	750
BPCI00121280820□00	82	20,30	100	0.16	1.95	820
BPCI00121280101□00	100	10,20	100	0.22	1.70	101
BPCI00121280121□00	120	10,20	100	0.25	1.60	121
BPCI00121280151□00	150	10,20	100	0.28	1.42	151
BPCI00121280181□00	180	10,20	100	0.35	1.30	181
BPCI00121280201□00	200	20	100	0.39	1.16	201
BPCI00121280221□00	220	10,20	100	0.39	1.16	221
BPCI00121280271□00	270	10,20	100	0.56	1.06	271
BPCI00121280331□00	330	10,20	100	0.64	0.95	331
BPCI00121280391□00	390	10,20	100	0.70	0.88	391

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Rated Current (A)Max	Marking
BPCI00121280471□00	470	10,20	100	0.98	0.79	471
BPCI00121280561□00	560	10,20	100	1.07	0.73	561
BPCI00121280681□00	680	10,20	100	1.46	0.67	681
BPCI00121280821□00	820	10,20	100	1.64	0.60	821
BPCI00121280102□00	1000	10,20	100	1.82	0.55	102
BPCI00121280152□00	1500	10,20	10	2.48	0.45	152
BPCI00121280202□00	2000	10,20	10	3.0	0.42	202
BPCI00121280242□00	2400	10,20	10	3.5	0.40	242
BPCI00121280252□00	2500	10,20	10	3.5	0.40	252
BPCI00121280332□00	3300	10,20	10	5.2	0.35	332
BPCI00121280472□00	4700	10,20	10	5.7	0.30	472
BPCI00121280103□00	10000	10	10	19.2	0.20	103

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 10% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI001212801R0□A0	1.0	30	100	0.0055	18	15	1R0
BPCI001212802R2□A0	2.2	30	100	0.0062	16	13	2R2
BPCI001212803R3□A0	3.3	30	100	0.0135	13.5	7.5	3R3
BPCI001212804R5□A0	4.5	20,30	100	0.0158	11.5	6.8	4R5
BPCI001212804R7□A0	4.7	20,30	100	0.0158	11.5	6.8	4R7
BPCI001212805R6□A0	5.6	20,30	100	0.0168	10.5	6.7	5R6
BPCI001212806R5□A0	6.5	20,30	100	0.0176	9.5	6.6	6R5
BPCI001212806R8□A0	6.8	20,30	100	0.0176	9.5	6.6	6R8
BPCI00121280100□A0	10	20,30	100	0.216	7.8	5.4	100
BPCI00121280120□A0	12	20,30	100	0.0243	7.3	4.9	120
BPCI00121280130□A0	13	20,30	100	0.0243	7.3	4.9	130
BPCI00121280150□A0	15	20,30	100	0.0270	6.5	4.5	150
BPCI00121280180□A0	18	20,30	100	0.0392	6.0	3.9	180
BPCI00121280220□A0	22	20,30	100	0.0432	5.3	3.6	220
BPCI00121280270□A0	27	20,30	100	0.0531	4.8	3.3	270
BPCI00121280330□A0	33	20,30	100	0.0648	4.3	3.0	330
BPCI00121280390□A0	39	20,30	100	0.071	4.1	2.8	390
BPCI00121280470□A0	47	20,30	100	0.10	3.8	2.5	470
BPCI00121280560□A0	56	20,30	100	0.11	3.4	2.35	560
BPCI00121280680□A0	68	20,30	100	0.14	3.1	2.10	680
BPCI00121280820□A0	82	20,30	100	0.16	2.7	1.95	820
BPCI00121280101□A0	100	20,30	100	0.22	2.5	1.70	101
BPCI00121280121□A0	120	20,30	100	0.25	2.3	1.60	121
BPCI00121280151□A0	150	20,30	100	0.28	2.0	1.42	151
BPCI00121280181□A0	180	20,30	100	0.35	1.9	1.30	181
BPCI00121280201□A0	200	20,30	100	0.37	1.8	1.23	201
BPCI00121280221□A0	220	20,30	100	0.39	1.7	1.16	221
BPCI00121280271□A0	270	20,30	100	0.51	1.6	1.06	271
BPCI00121280281□A0	280	20,30	100	0.51	1.6	1.06	281
BPCI00121280331□A0	330	20,30	100	0.64	1.4	0.95	331
BPCI00121280391□A0	390	20,30	100	0.70	1.3	0.88	391
BPCI00121280471□A0	470	20,30	100	0.98	1.1	0.79	471
BPCI00121280561□A0	560	20,30	100	1.03	1.05	0.75	561
BPCI00121280681□A0	680	20	100	1.10	1.0	0.70	681
BPCI00121280801□A0	800	20	100	1.29	0.9	0.67	801
BPCI00121280821□A0	820	20	100	1.29	0.9	0.67	821

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPCI00121280102□A0	1000	20	100	1.53	0.85	0.64	102
BPCI00121280112□A0	1100	20	100	1.66	0.82	0.62	112
BPCI00121280122□A0	1200	20	100	1.80	0.80	0.60	122
BPCI00121280132□A0	1300	20	100	1.93	0.76	0.58	132
BPCI00121280142□A0	1400	10,20	100	2.1	0.73	0.56	142
BPCI00121280152□A0	1500	20	100	2.2	0.70	0.55	152
BPCI00121280182□A0	1800	20	10	2.5	0.65	0.50	182
BPCI00121280202□A0	2000	20	10	2.7	0.62	0.48	202
BPCI00121280222□A0	2200	20	10	2.9	0.59	0.46	222
BPCI00121280242□A0	2400	20	10	3.2	0.58	0.45	242
BPCI00121280282□A0	2800	20	10	3.6	0.53	0.42	282
BPCI00121280332□A0	3300	20	10	4.1	0.48	0.39	332
BPCI00121280392□A0	3900	20	10	4.7	0.45	0.37	392
BPCI00121280472□A0	4700	20	10	5.3	0.42	0.36	472
BPCI00121280622□A0	6200	10,20	10	7.1	0.33	0.30	622
BPCI00121280682□A0	6800	20	10	7.2	0.30	0.28	682
BPCI00121280103□A0	10000	20	10	14.2	0.15	0.15	103

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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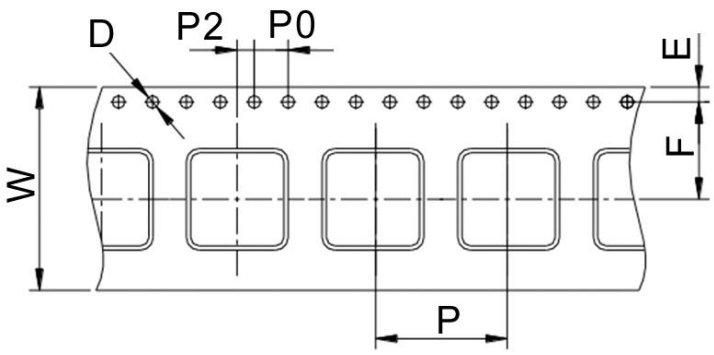
Pulse a YAGEO company

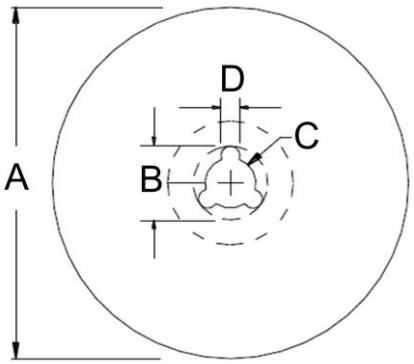
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



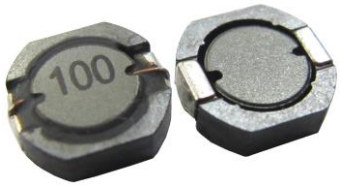
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCI00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCI00121250	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121260	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121280	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCI00121210	24	1.5	1.75	11.5	24	4	2	330	20	13	2	250

BPSS Series



The BPSS Series is designed for low profile type with low RDC and large current. The magnetic shielding supports high – density mounting. This series also provides working – frequency up to 1MHz.

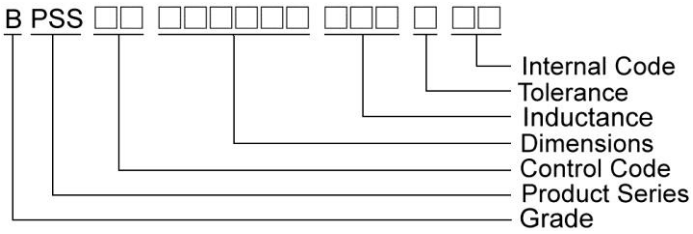
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

Product Identification



Shape and Dimensions

FIG 1

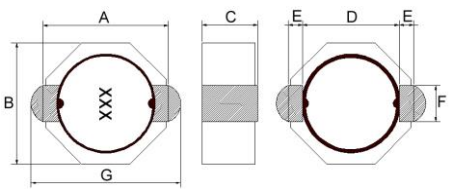
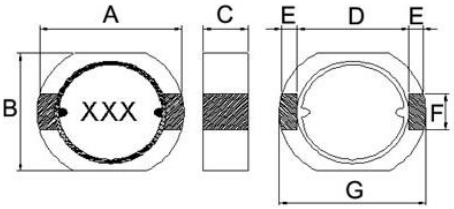
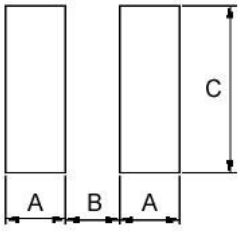


FIG 2



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions								Recommended Pattern		
	FIG	A	B	C	D	E	F	G	A	B	C
BPSS00050522	1	5.2±0.3	5.0±0.3	2.2Max	4.0	0.6	1.5	6.2Max	1.5	3.2	1.5
BPSS00080725	2	7.5±0.3	7.4±0.3	2.5Max	5.6	1.2	2.5	8.7Max	1.5	5.4	2.8
BPSS00080740	2	7.5±0.3	7.4±0.3	4.0Max	5.6	1.2	2.5	9.2Max	1.5	5.4	2.8

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
BPSS000505221R2□00	1.2	30	100	25	4.3	3.43
BPSS000505221R8□00	1.8	30	100	32	3.6	3.12
BPSS000505223R3□00	3.3	30	100	54	2.5	2.68
BPSS000505224R7□00	4.7	30	100	81	2.0	2.18
BPSS00050522100□00	10	20,30	100	160	1.4	1.51
BPSS00050522220□00	22	20,30	100	320	0.9	1.02
BPSS00050522330□00	33	20,30	100	490	0.77	0.80

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

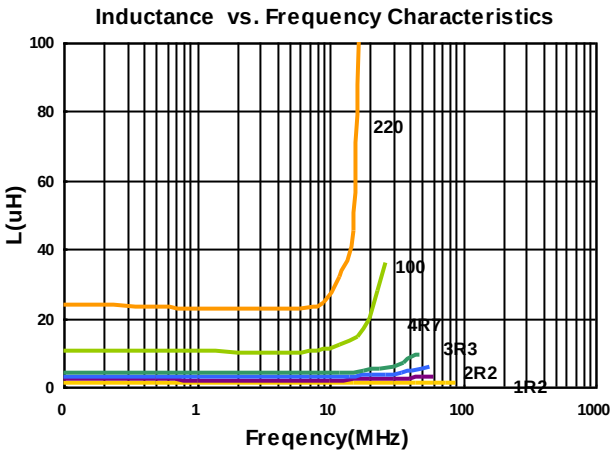
- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

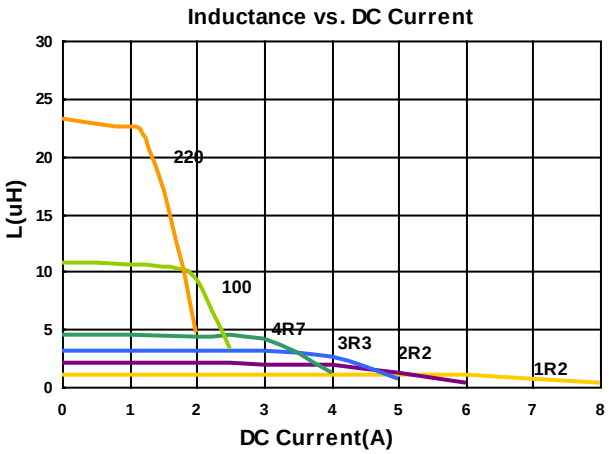
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY





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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat (A)	Irms (A)
BPSS000807251R0□00	1.0	30	100	14.28	8.3	6.22
BPSS000807251R5□00	1.5	30	100	19.70	7.2	5.00
BPSS000807252R2□00	2.2	30	100	24.09	5.4	4.40
BPSS000807253R3□00	3.3	30	100	41.20	4.4	3.70
BPSS000807254R7□00	4.7	30	100	49.70	4.0	3.20
BPSS000807255R6□00	5.6	20,30	100	58.90	3.9	2.90
BPSS000807256R8□00	6.8	20,30	100	66.30	3.5	2.70
BPSS00080725100□00	10	20,30	100	92.40	2.8	1.90
BPSS00080725150□00	15	20,30	100	170.0	2.3	1.70
BPSS00080725220□00	22	20,30	100	210.0	1.5	1.52
BPSS00080725330□00	33	20,30	100	320.0	1.4	1.10
BPSS00080725470□00	47	20,30	100	490.0	1.2	0.95

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

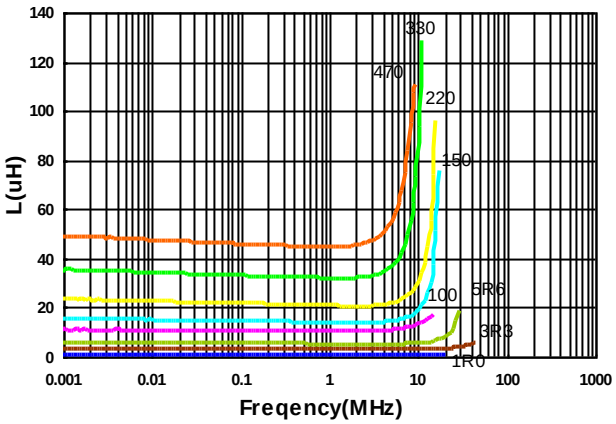
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V

  RDC：Chroma 16502

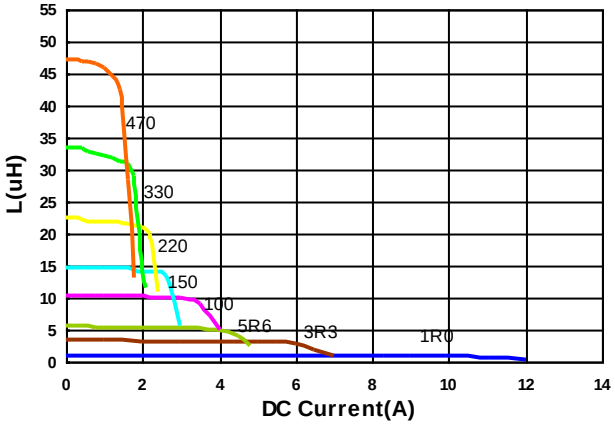
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY

Inductance vs. Frequency Characteristics



Inductance vs. DC Current



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Pulse a YAGEO company

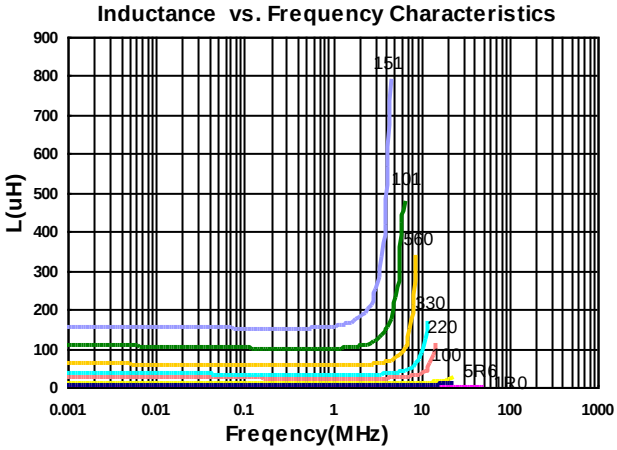
CHILISIN ELECTRONICS CORP.

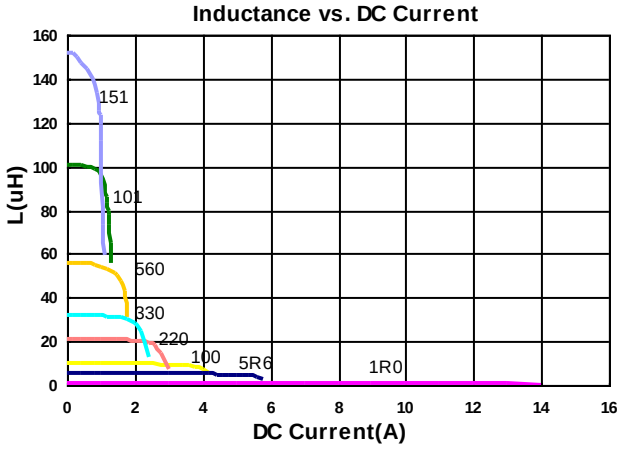
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (mΩ) Max	Isat(A) Max(Typ)	Irms (A)
BPSS000807401R0□00	1.0	30	100	6.38	(8.0)12	9.00
BPSS000807401R5□00	1.5	30	100	8.64	(7.0)10	8.00
BPSS000807401R8□00	1.8	30	100	9.60	(6.5)8.6	7.92
BPSS000807402R5□00	2.5	30	100	13.6	(4.8)7.2	7.40
BPSS000807403R3□00	3.3	30	100	17.8	(3.9)6.8	6.70
BPSS000807404R7□00	4.7	20,30	100	26.6	(3.5)4.6	4.90
BPSS000807405R6□00	5.6	20,30	100	29.0	(3.3)4.1	4.60
BPSS000807406R8□00	6.8	20,30	100	34.0	(3.2)3.9	3.90
BPSS00080740100□00	10	20,30	100	55.6	(2.5)3.4	3.25
BPSS00080740150□00	15	20,30	100	74.4	(2.1)3.0	2.70
BPSS00080740220□00	22	20,30	100	98.1	(1.7)2.4	2.40
BPSS00080740330□00	33	20,30	100	140	(1.4)2.0	1.90
BPSS00080740470□00	47	20,30	100	217	(1.2)1.7	1.48
BPSS00080740560□00	56	20,30	100	260	(1.0)1.5	1.33
BPSS00080740680□00	68	20,30	100	310	(0.95)1.36	1.20
BPSS00080740820□00	82	20,30	100	360	(0.9)1.20	1.12
BPSS00080740101□00	100	20,30	100	480	(0.85)1.12	0.95
BPSS00080740121□00	120	20,30	100	560	(0.75)1.00	0.89
BPSS00080740151□00	150	20,30	100	710	(0.65)0.92	0.82

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~105℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：HP4284A.+Aglient 16334A , 100kHz/ 1V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B
  Irms：Agilent 6641 SYSTEM DC POWER SUPPLY





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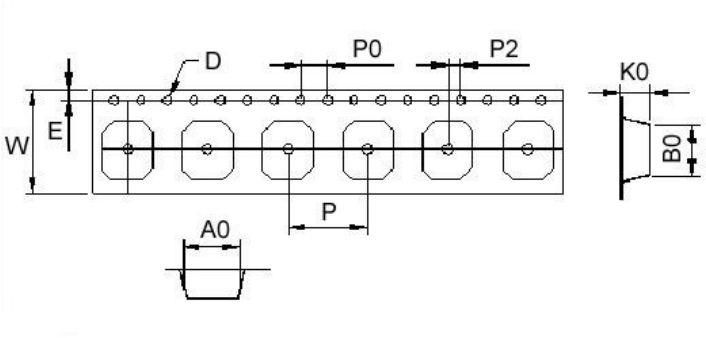
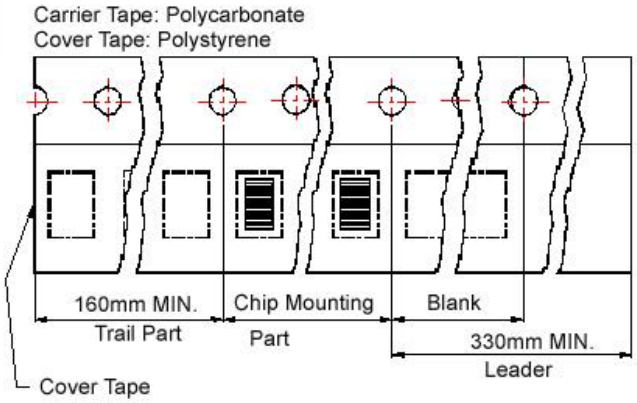
Packaging Specifications

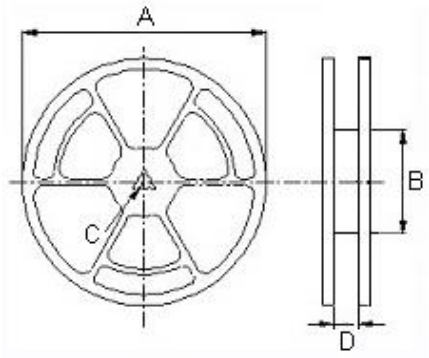
Tape Dimensions



Tape Material



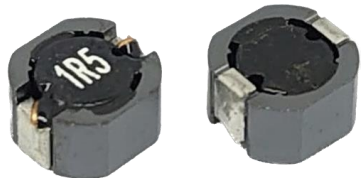
Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSS00050522	5.25	6.25	2.4	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BPSS00080725	7.6	8.65	2.8	1.55	1.75	16	12	4	2	330	100	13	16	1500
BPSS00080740	7.6	9.0	4.3	1.55	1.75	16	12	4	2	330	100	13	16	1000

BPAL Series



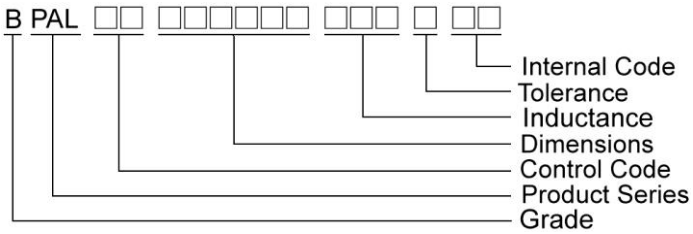
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

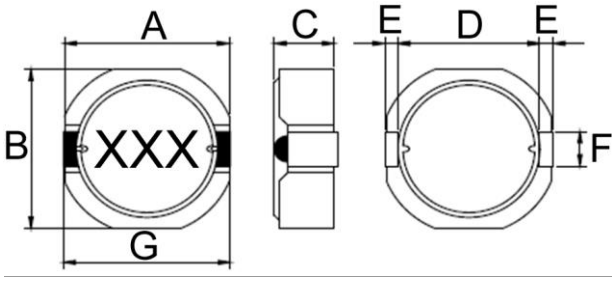
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

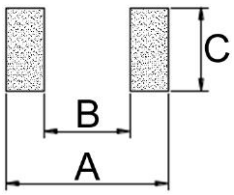
Product Identification



Shape and Dimensions



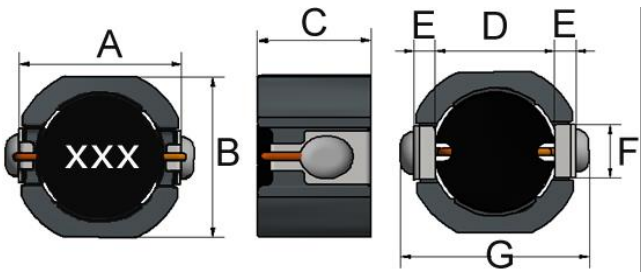
Recommended Pattern



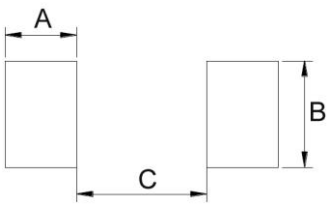
Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern		
	A	B	C	D	E	F	G	A	B	C
BPAL00060630	6.3Max	6.2Max	3.0Max	4.8	0.6	2.0	6.4Max	6.6	4.6	2.6

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions							Recommended Pattern		
	A	B	C	D	E	F	G	A	B	C
BPAL00060645	6.2±0.3	6.0±0.3	4.5±0.3	4.6	0.8	2.0	7.2Max	1.5	2.2	4
BPAL00060645-0E	6.2±0.3	6.0±0.3	4.5±0.3	4.6	0.8	2.0	6.7Max	1.5	2.2	4
BPAL00080845	7.5±0.5	7.5±0.5	4.5Max	5.6	1.0	2.5	9.5Max	2.0	2.8	5.4

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606301R0□00	1.0	20,30	100	0.014	3.59	5.32	1R0
BPAL000606301R5□00	1.5	30	100	0.016	2.93	4.45	1R5
BPAL000606302R2□00	2.2	30	100	0.020	2.42	4.13	2R2
BPAL000606303R3□00	3.3	20,30	100	0.026	1.89	3.54	3R3
BPAL000606303R6□00	3.6	30	100	0.026	1.89	3.54	3R6
BPAL000606304R7□00	4.7	30	100	0.033	1.66	3.03	4R7
BPAL000606306R2□00	6.2	30	100	0039	1.45	2.69	6R2
BPAL000606306R8□00	6.8	20,30	100	0.041	1.40	2.60	6R8
BPAL000606308R2□00	8.2	20,30	100	0.049	1.20	2.50	8R2
BPAL00060630100□00	10	20,30	100	0.059	1.14	2.25	100
BPAL00060630120□00	12	20,30	100	0.063	1.04	2.12	120
BPAL00060630150□00	15	20,30	100	0.075	0.93	2.04	150
BPAL00060630180□00	18	20,30	100	0.089	0.85	1.86	180
BPAL00060630220□00	22	20,30	100	0.115	0.77	1.58	220
BPAL00060630270□00	27	20,30	100	0.144	0.70	1.35	270
BPAL00060630330□00	33	20,30	100	0.168	0.63	1.19	330
BPAL00060630390□00	39	20,30	100	0.180	0.58	1.16	390
BPAL00060630470□00	47	20,30	100	0.225	0.53	1.05	470
BPAL00060630560□00	56	20,30	100	0.264	0.48	0.97	560
BPAL00060630680□00	68	20,30	100	0.324	0.44	0.87	680
BPAL00060630820□00	82	20,30	100	0.396	0.40	0.76	820
BPAL00060630101□00	100	20,30	100	0.498	0.36	0.69	101
BPAL00060630151□00	150	20,30	100	0.738	0.31	0.52	151
BPAL00060630221□00	220	20,30	100	1.4	0.28	0.45	221
BPAL00060630331□00	330	20,30	100	2.1	0.18	0.42	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606302R2□AE	2.2	30	100	24.8	5.5	3.8	2R2
BPAL000606303R3□AE	3.3	30	100	20.3	2.3	2.3	3R3
BPAL000606304R7□AE	4.7	30	100	43.1	3.7	2.8	4R7
BPAL000606305R6□AE	5.6	30	100	47.9	3.3	2.7	5R6
BPAL00060630100□AE	10	20,30	100	93	3.0	2.05	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)Max	Irms (A)Typ	Marking
BPAL000606451R0□00	1.0	30	100	0.011±30%	6.7	4.8	1R0
BPAL000606451R5□00	1.5	30	100	0.013±30%	5.5	4.5	1R5
BPAL000606452R2□00	2.2	30	100	0.015±30%	4.2	4.1	2R2
BPAL000606453R3□00	3.3	30	100	0.019±30%	3.5	3.7	3R3
BPAL000606454R7□00	4.7	30	100	0.023±30%	3.1	3.3	4R7
BPAL000606456R8□00	6.8	30	100	0.027±30%	2.5	3.1	6R8
BPAL00060645100□00	10	20,30	100	0.035±20%	2.1	2.6	100
BPAL00060645150□00	15	20,30	100	0.060±20%	1.7	2.0	150
BPAL00060645220□00	22	20,30	100	0.075±20%	1.4	1.8	220
BPAL00060645330□00	33	20,30	100	0.10±20%	1.1	1.6	330
BPAL00060645470□00	47	20,30	100	0.13±20%	0.97	1.4	470
BPAL00060645680□00	68	20,30	100	0.20±20%	0.81	1.1	680
BPAL00060645101□00	100	20,30	100	0.32±20%	0.61	0.86	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat1 (A)Typ	Isat2 (A)Max	Irms (A)Typ	Marking
BPAL000606451R5□0E	1.5	20,30	100	0.016±30%	4.0	-	4.1	1R5
BPAL00060645330□0E	33	20,30	100	0.10±20%	1.1	-	1.6	330
BPAL00060645331□0E	330	20,30	100	1.59 Max	0.47	-	0.45	331
BPAL00060645471□0E	470	20,30	100	1.68±20%	-	0.27	0.27	471
BPAL00060645222□0E	2200	20,30	100	16 Max	0.08	-	0.1	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat1 for Inductance drop 10% from its value without current
- Isat2 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1, Isat2 or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±30%	Isat (A)Max	Irms (A)Typ	Marking
BPAL000808451R5□00	1.5	20,30	100	0.0065	9.0	8.0	1R5
BPAL000808452R2□00	2.2	30	100	0.00863	7.3	6.5	2R2
BPAL000808453R3□00	3.3	20,30	100	0.0114	6.0	6.0	3R3
BPAL000808454R7□00	4.7	20,30	100	0.0145	5.2	5.4	4R7
BPAL000808456R8□00	6.8	20,30	100	0.0192	4.0	4.38	6R8
BPAL00080845100□00	10	20,30	100	0.02894	3.5	3.5	100
BPAL00080845150□00	15	20,30	100	0.03747	2.9	3.0	150
BPAL00080845180□00	18	20,30	100	0.05143	2.7	2.8	180
BPAL00080845220□00	22	20,30	100	0.05432	2.4	2.6	220
BPAL00080845330□00	33	20,30	100	0.08248	2.1	2.0	330
BPAL00080845470□00	47	20,30	100	0.110	1.6	1.8	470
BPAL00080845680□00	68	20,30	100	0.165	1.4	1.4	680
BPAL00080845101□00	100	20,30	100	0.33	1.2	1.1	101
BPAL00080845331□00	330	20,30	100	1.13	0.7	0.55	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat1 (A)Max	Isat2 (A)Max	Irms (A)Typ	Marking
BPAL000808451R5□0E	1.5	30	100	0.011±20%	7.3	-	4.9	1R5
BPAL000808451R5□0F	1.5	30	100	0.010±30%	-	6.3	8.6	1R5
BPAL000808452R2□0E	2.2	30	100	0.013±30%	-	6.2	6.3	2R2
BPAL000808453R3□0E	3.3	20,30	100	0.019±20%	6.0	-	4.5	3R3
BPAL000808454R7□0E	4.7	20,30	100	0.020±20%	4.1	-	3.6	4R7
BPAL000808454R7□0F	4.7	30	100	0.018±30%	-	4.1	4.8	4R7
BPAL000808456R8□0E	6.8	20,30	100	0.027±20%	3.3	-	3.0	6R8
BPAL00080845100□0E	10	20,30	100	0.038±20%	2.7	-	2.5	100
BPAL00080845151□0E	150	20,30	100	0.43±20%	-	0.69	0.95	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1 for Inductance drop 20% from its value without current
- Isat 2 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1,Isat2 or Irms

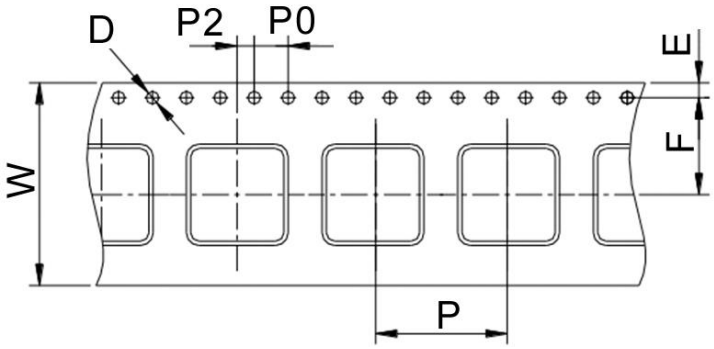
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

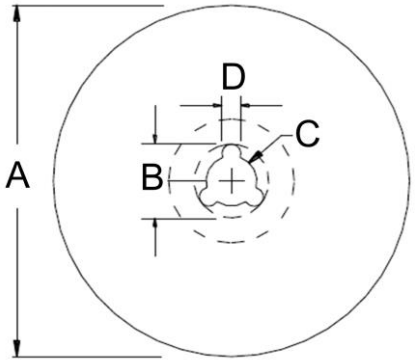
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPAL00060630	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPAL00060645	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPAL00080845	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000

BPCA Series

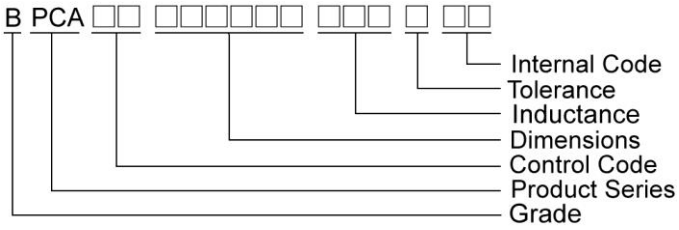
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded power inductor

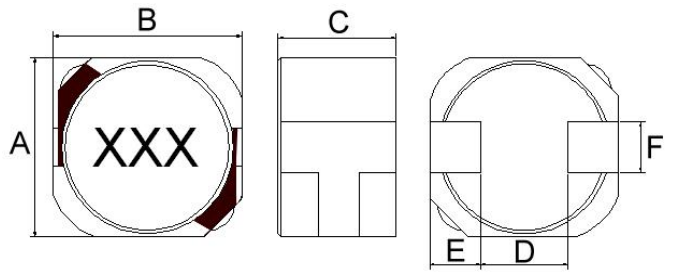
Applications

- Thin-screen TVs
- LCDs
- AV equipment
- STBs
- LED lights

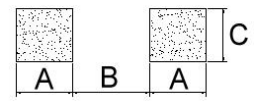
Product Identification



Shape and Dimensions



Recommended Pattern

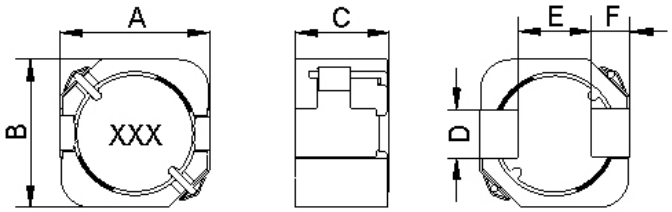


Dimensions in mm

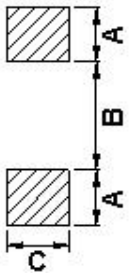
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00060645	6.0±0.2	6.3±0.2	4.6±0.3	2.9	1.7±0.1	2.0±0.1	2.1	2.8	2.2
BPCA00070745	7.0±0.2	7.4±0.2	4.5±0.3	3.4	2.0±0.1	2.0±0.1	2.4	3.3	2.2

SMD Shielded Power Inductors - BPCA Series

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCA00101065	10.3±0.3	10.0±0.3	6.5Max	3.5	4.5	2.65	3.3	4.3	3.7
BPCA00121280	12.5±0.4	12.3±0.4	8.0Max	4.0	6.3	3.15	4.5	6.0	4.3

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Shielded Power Inductors - BPCA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000606451R0□00	1.0	30	100	0.0143	6.7(6.0)	4.8	1R0
BPCA000606451R5□00	1.5	30	100	0.0169	5.5(5.2)	4.5	1R5
BPCA000606452R2□00	2.2	30	100	0.0195	4.2(3.6)	4.1	2R2
BPCA000606453R3□00	3.3	30	100	0.0247	3.5(3.2)	3.7	3R3
BPCA000606454R7□00	4.7	30	100	0.0299	3.1(2.5)	3.3	4R7
BPCA000606456R8□00	6.8	30	100	0.0351	2.8(2.0)	3.1	6R8
BPCA00060645100□00	10	20	100	0.042	2.1(1.7)	2.6	100
BPCA00060645150□00	15	20	100	0.072	1.7(1.4)	2.0	150
BPCA00060645220□00	22	20	100	0.09	1.4(1.1)	1.8	220
BPCA00060645330□00	33	20	100	0.12	1.1(0.9)	1.6	330
BPCA00060645470□00	47	20	100	0.156	0.97(0.78)	1.4	470
BPCA00060645680□00	68	20	100	0.24	0.81(0.65)	1.1	680
BPCA00060645101□00	100	20	100	0.384	0.61(0.55)	0.86	101
BPCA00060645151□00	150	20	100	0.576	0.53(0.46)	0.72	151
BPCA00060645221□00	220	20	100	0.864	0.47(0.36)	0.57	221
BPCA00060645331□00	330	20	100	1.104	0.36(0.28)	0.49	331
BPCA00060645471□00	470	20	100	1.56	0.28(0.25)	0.41	471

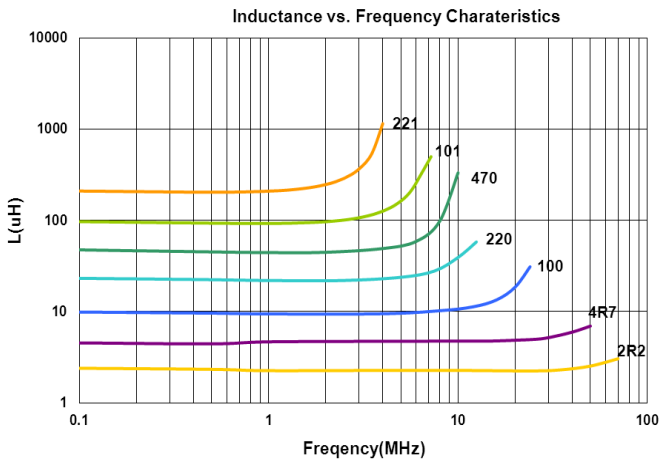
Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

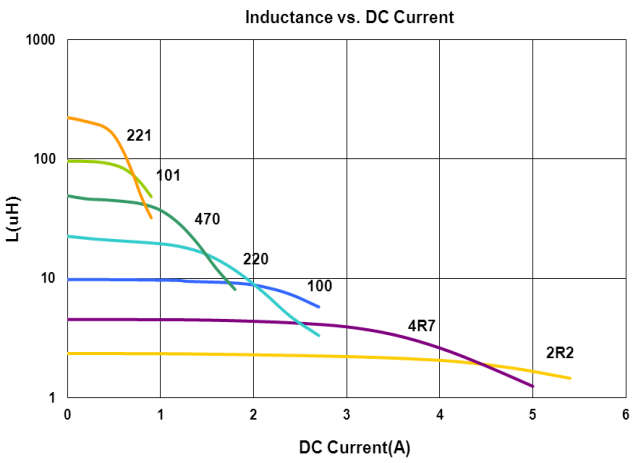
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat*80%
- Irms for a 40℃ temprature rise from 25℃ ambient.
- Measure Equipment：

  L：HP4284+42841A, 100kHz/ 1V

  RDC：Chroma 16502

  Isat：HP4284+42841A





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Pulse a YAGEO company

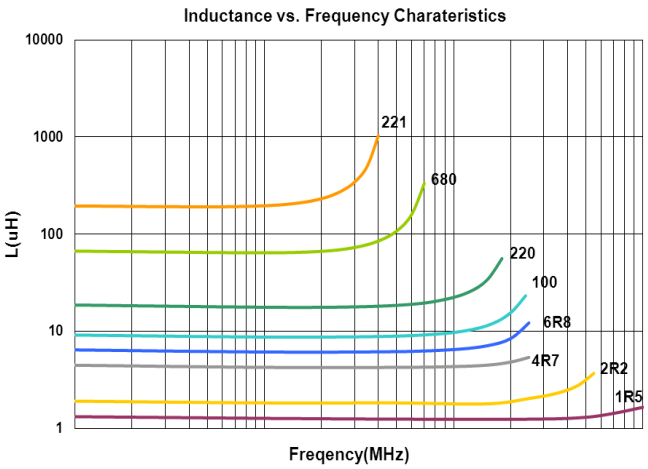
CHILISIN ELECTRONICS CORP.

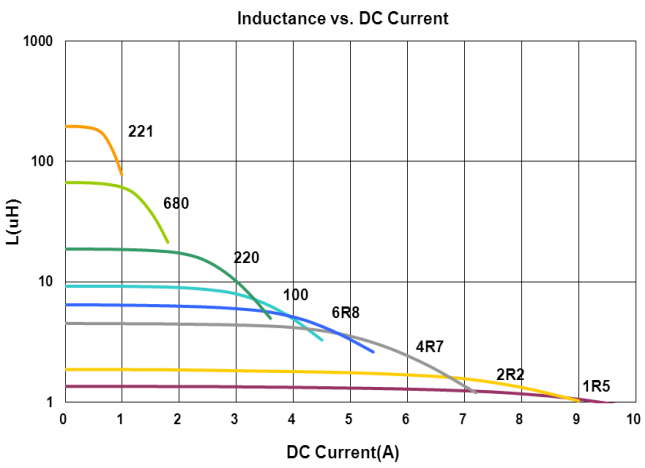
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A) Typ(Max)	Irms (A)	Marking
BPCA000707451R0□00	1.0	30	100	0.0117	9.3(7.6)	6.5	1R0
BPCA000707451R5□00	1.5	30	100	0.013	7.8(6.2)	5.4	1R5
BPCA000707452R2□00	2.2	30	100	0.0169	7.3(6.0)	5.1	2R2
BPCA000707453R3□00	3.3	30	100	0.0208	5.8(4.6)	4.8	3R3
BPCA000707454R7□00	4.7	30	100	0.0234	4.8(4.0)	4.1	4R7
BPCA000707456R8□00	6.8	30	100	0.0264	3.6(3.0)	3.9	6R8
BPCA00070745100□00	10	20	100	0.0396	3.2(2.6)	3.1	100
BPCA00070745150□00	15	20	100	0.066	2.4(2.0)	2.6	150
BPCA00070745220□00	22	20	100	0.0828	2.1(1.6)	2.2	220
BPCA00070745330□00	33	20	100	0.116	1.6(1.3)	1.8	330
BPCA00070745470□00	47	20	100	0.156	1.3(1.1)	1.7	470
BPCA00070745680□00	68	20	100	0.204	1.08(0.95)	1.5	680
BPCA00070745101□00	100	20	100	0.312	0.9(0.8)	1.05	101
BPCA00070745151□00	150	20	100	0.516	0.8(0.65)	0.95	151
BPCA00070745221□00	220	20	100	0.66	0.7(0.54)	0.75	221
BPCA00070745331□00	330	20	100	0.96	0.55(0.45)	0.58	331
BPCA00070745471□00	470	20	100	1.44	0.45(0.37)	0.46	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat*80%
- Irms for a 40℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：HP4284+42841A, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：HP4284+42841A





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Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001010652R2□A0	2.2	30	100kHz,0.25V	7.1±30%	11.00	8.50	2R2
BPCA001010653R3□A0	3.3	30	100kHz,0.25V	8.5±30%	8.40	8.10	3R3
BPCA001010654R7□A0	4.7	30	100kHz,0.25V	11±30%	8.00	7.00	4R7
BPCA001010656R8□A0	6.8	30	100kHz,0.25V	13±30%	6.50	6.60	6R8
BPCA00101065100□A0	10	20,30	100kHz,0.25V	17±20%	5.00	5.80	100
BPCA00101065150□A0	15	20,30	100kHz,0.25V	30±20%	4.40	4.10	150
BPCA00101065220□A0	22	20,30	100kHz,0.25V	43±20%	3.60	3.30	220
BPCA00101065330□A0	33	20,30	100kHz,0.25V	61±20%	3.10	2.90	330
BPCA00101065470□A0	47	20,30	100kHz,0.25V	74±20%	2.35	2.60	470
BPCA00101065680□A0	68	20,30	100kHz,0.25V	91±20%	2.05	2.40	680
BPCA00101065101□A0	100	20,30	100kHz,0.25V	150±20%	1.65	1.90	101
BPCA00101065151□A0	150	20,30	100kHz,0.25V	240±20%	1.35	1.50	151
BPCA00101065221□A0	220	20,30	100kHz,0.25V	350±20%	1.10	1.20	221
BPCA00101065331□A0	330	20,30	100kHz,0.25V	445±20%	0.90	1.10	331
BPCA00101065471□A0	470	20,30	100kHz,0.25V	600±20%	0.75	0.90	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284+42841A,
  RDC: Chroma 16502
  Isat:WK3255BQ+ WK3265B
  Irms: WK3255BQ+ WK3265B

Standard Specifications

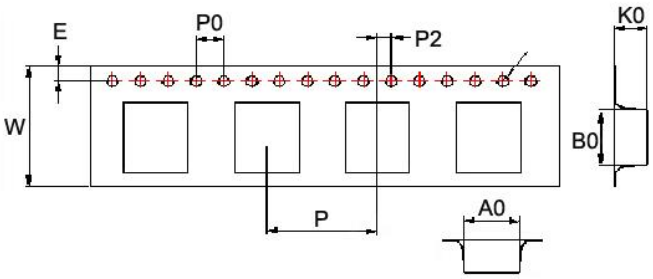
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency	RDC (mΩ)	Isat (A)Typ	Irms (A)Typ	Marking
BPCA001212801R5□A0	1.5	30	100kHz,0.25V	5.5±30%	23.50	10.50	1R5
BPCA001212802R2□A0	2.2	30	100kHz,0.25V	6.3±30%	20.00	9.70	2R2
BPCA001212803R3□A0	3.3	30	100kHz,0.25V	7.7±30%	15.00	9.50	3R3
BPCA001212804R7□A0	4.7	30	100kHz,0.25V	8.7±30%	13.00	9.00	4R7
BPCA001212806R8□A0	6.8	30	100kHz,0.25V	10±20%	9.70	8.50	6R8
BPCA00121280100□A0	10	20,30	100kHz,0.25V	12±20%	9.20	7.70	100
BPCA00121280150□A0	15	20,30	100kHz,0.25V	24±20%	7.40	5.10	150
BPCA00121280220□A0	22	20,30	100kHz,0.25V	27±20%	5.80	4.50	220
BPCA00121280330□A0	33	20,30	100kHz,0.25V	52±20%	4.50	3.60	330
BPCA00121280470□A0	47	20,30	100kHz,0.25V	66±20%	4.20	3.20	470
BPCA00121280680□A0	68	20,30	100kHz,0.25V	90±20%	3.60	2.70	680
BPCA00121280101□A0	100	20,30	100kHz,0.25V	110±20%	2.90	2.60	101
BPCA00121280151□A0	150	20,30	100kHz,0.25V	170±20%	2.40	2.10	151
BPCA00121280221□A0	220	20,30	100kHz,0.25V	280±20%	1.95	1.60	221
BPCA00121280331□A0	330	20,30	100kHz,0.25V	410±20%	1.60	1.25	331
BPCA00121280471□A0	470	20,30	100kHz,0.25V	590±20%	1.30	1.10	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

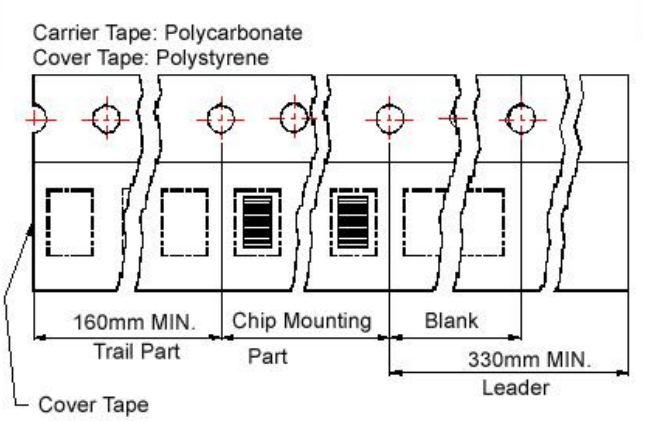
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L: HP4284+42841A,
  RDC: Chroma 16502
  Isat:WK3255BQ+ WK3265B
  Irms: WK3255BQ+ WK3265B

Packaging Specifications

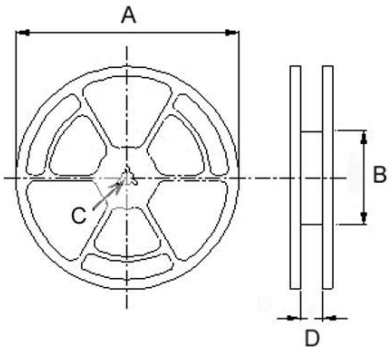
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPCA00060645	6.9	6.3	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00070745	7.7	7.35	5	1.55	1.75	16	12	4	2	330	100	13	16	1000
BPCA00101065	10.4	10.65	6.7	1.50	1.75	24	16	4	2	330	100	13	24	500
BPCA00121280	12.8	13	8.7	1.50	1.75	24	16	4	2	330	100	13	24	400

BPCP Series

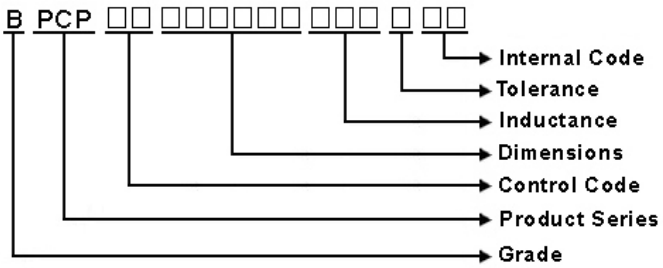
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

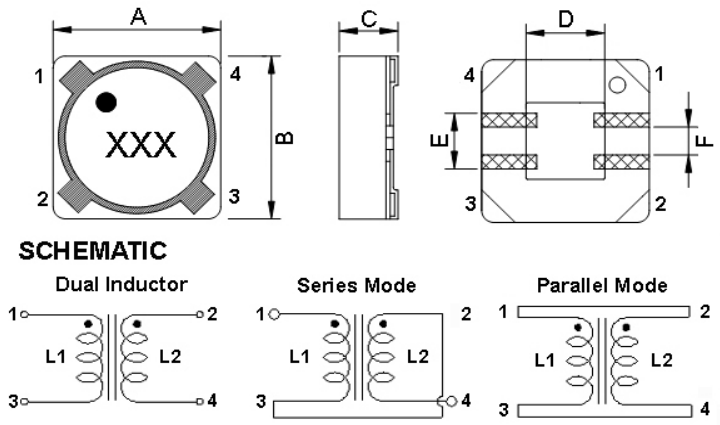
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters

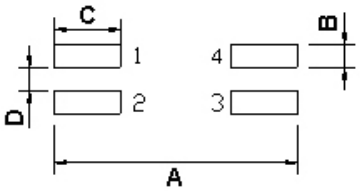
Product Identification



Shape and Dimensions



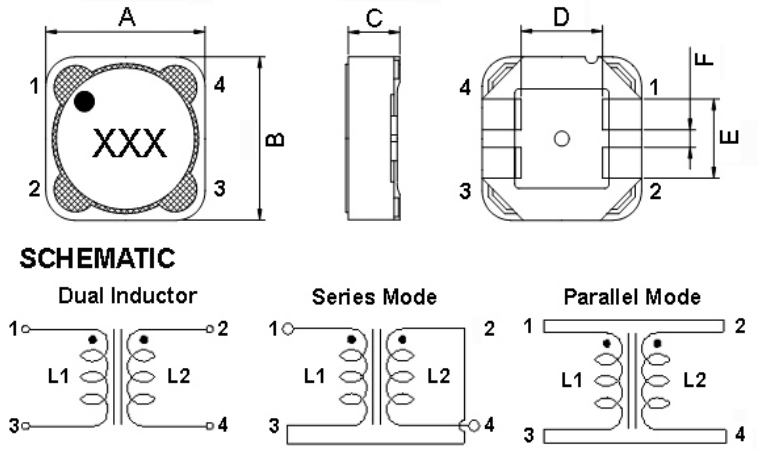
Recommended Pattern



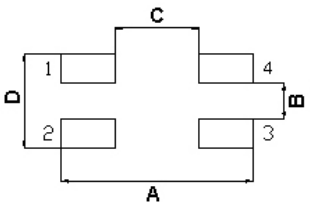
Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPCP00070738	7.6Max	7.6Max	3.8Max	4.05	2.7	1.1	7.9	1.3	2.3	0.6
BPCP00070746	7.6Max	7.6Max	4.5Max	4.05	2.7	1.1	7.9	1.3	2.3	0.6

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPCP00121281	12.0±0.5	12.0±0.5	8.1Max	5.7	5.0	1.6	13.1	1.1	5.2	5.5

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	
BPCP000707383R3MA0	3.3	3.3	0.0316	4.22	3.31	13.6	0.182	2.11	1.660	●3R3
BPCP000707384R7MA0	4.7	4.7	0.0406	3.78	3.09	17.1	0.242	1.89	1.550	●4R7
BPCP000707386R8MA0	6.8	6.8	0.0658	3.12	2.55	25.5	0.285	1.56	1.280	●6R8
BPCP000707388R2MA0	8.2	8.2	0.0772	2.66	2.19	34.1	0.306	1.33	1.100	●8R2
BPCP00070738100MA0	10	10	0.0826	2.47	2.08	39.6	0.342	1.24	1.040	●100
BPCP00070738150MA0	15	15	0.1190	2.05	1.83	59.6	0.470	1.03	0.916	●150
BPCP00070738220MA0	22	22	0.1500	1.67	1.62	89.5	0.620	0.83	0.811	●220
BPCP00070738330MA0	33	33	0.2400	1.35	1.31	140.5	1.000	0.68	0.653	●330
BPCP00070738470MA0	47	47	0.3380	1.14	1.08	194.2	1.280	0.57	0.542	●470
BPCP00070738680MA0	68	68	0.5070	0.96	0.89	289.3	1.920	0.48	0.444	●680
BPCP00070738820MA0	82	82	0.6100	0.89	0.86	324.7	2.280	0.44	0.430	●820
BPCP00070738101MA0	100	100	0.7150	0.79	0.73	397.6	2.640	0.39	0.367	●101
BPCP00070738151MA0	150	150	0.9860	0.65	0.58	608.2	3.630	0.32	0.289	●151
BPCP00070738221MA0	220	220	1.4800	0.53	0.52	922.6	5.500	0.27	0.260	●221
BPCP00070738331MA0	330	330	2.1600	0.44	0.42	1335	8.250	0.22	0.211	●331
BPCP00070738471MA0	470	470	2.8200	0.37	0.35	1859	11.220	0.18	0.173	●471

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)±20%	RDC (Ω)Typ	Isat (A)Typ	Irms (A)Typ	OCL (uH)±20%	RDC (Ω)Typ	Isat (A)Typ	Irms (A)Typ	
BPCP000707463R3MA0	3.3	3.396	0.0183	5.40	3.94	13.58	0.0732	2.70	1.970	●3R3
BPCP000707464R7MA0	4.7	5.182	0.0254	4.37	3.34	20.73	0.1020	2.19	1.670	●4R7
BPCP000707466R8MA0	6.8	7.344	0.0418	3.67	2.6	29.38	0.1670	1.84	1.300	●6R8
BPCP000707468R2MA0	8.2	8.566	0.0441	3.40	2.53	34.26	0.1770	1.70	1.270	●8R2
BPCP00070746100MA0	10	9.882	0.0489	3.17	2.41	39.53	0.1960	1.58	1.200	●100
BPCP00070746150MA0	15	16.09	0.0637	2.48	2.11	64.36	0.2550	1.24	1.050	●150
BPCP00070746220MA0	22	21.73	0.0925	2.13	1.75	86.92	0.3710	1.07	0.874	●220
BPCP00070746330MA0	33	33.01	0.1430	1.73	1.41	132.0	0.5740	0.87	0.702	●330
BPCP00070746470MA0	47	49.64	0.2160	1.41	1.15	198.6	0.8650	0.71	0.573	●470

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance L1,2(uH)	Parallel Ratings				Series Ratings				Marking
		OCL (uH)	RDC (Ω)Max	Isat (A)Typ	Irms (A)Typ	OCL (uH)	RDC (Ω)Max	Isat (A)Typ	Irms (A)Typ	
BPCP001212812R2TA0	2.2	2.2±30%	0.0092	25.50	12.50	8.8±30%	0.0338	12.700	6.230	●2R2
BPCP001212813R3TA0	3.3	3.3±30%	0.0110	21.50	10.40	13.2±30%	0.0400	10.800	5.230	●3R3
BPCP001212814R7TA0	4.7	4.7±30%	0.0135	16.50	8.25	18.8±30%	0.0500	8.240	4.130	●4R7
BPCP001212816R8MA0	6.8	6.8±20%	0.0183	13.30	7.34	27.2±20%	0.0656	6.670	3.670	●6R8
BPCP001212818R2MA0	8.2	8.2±20%	0.0191	12.20	6.32	32.8±20%	0.0714	6.090	3.160	●8R2
BPCP00121281100MA0	10	10±20%	0.0241	11.20	6.04	40±20%	0.0921	5.600	3.020	●100
BPCP00121281150MA0	15	15±20%	0.0333	9.66	5.03	60±20%	0.1290	4.830	2.510	●150
BPCP00121281220MA0	22	22±20%	0.0503	7.57	4.00	88±20%	0.1920	3.780	2.000	●220
BPCP00121281330MA0	33	33±20%	0.0664	6.22	3.23	132±20%	0.2650	3.110	1.610	●330
BPCP00121281470MA0	47	47±20%	0.0898	5.28	2.95	188±20%	0.3530	2.640	1.470	●470
BPCP00121281680MA0	68	68±20%	0.1230	4.44	2.44	272±20%	0.4690	2.220	1.220	●680
BPCP00121281820MA0	82	82±20%	0.1530	4.06	2.09	328±20%	0.5780	2.030	1.040	●820
BPCP00121281101MA0	100	100±20%	0.1750	3.64	1.96	400±20%	0.7010	1.820	0.980	●101
BPCP00121281151MA0	150	150±20%	0.2610	3.01	1.59	600±20%	1.0130	1.510	0.796	●151
BPCP00121281221MA0	220	220±20%	0.3430	2.43	1.29	880±20%	1.3800	1.220	0.645	●221
BPCP00121281331MA0	330	330±20%	0.5400	2.01	1.04	1320±20%	2.1720	1.010	0.522	●331
BPCP00121281471MA0	470	470±20%	0.8650	1.68	0.85	1880±20%	3.3000	0.838	0.427	●471
BPCP00121281681MA0	680	680±20%	1.2960	1.39	0.76	2720±20%	4.8880	0.697	0.380	●681
BPCP00121281821MA0	820	820±20%	1.6320	1.27	0.65	3280±20%	5.8960	0.633	0.325	●821
BPCP00121281102MA0	1000	1000±20%	1.9920	1.14	0.61	4000±20%	7.2020	0.571	0.307	●102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Test Frequency : 100kHz,0.25V
- Dual:L1(1-3) ,L2(2-4) Parallel:(1,2-3,4) Series:(1-4)tie(2-3)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Turns Ratio(1-3):(2-4) 1:1

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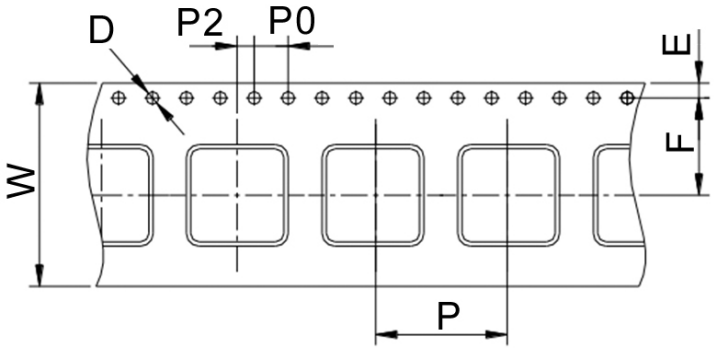
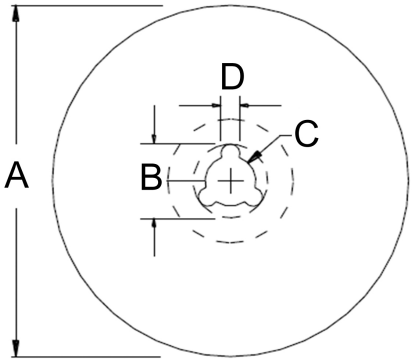
Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCP00070738	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCP00070746	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCP00121281	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPSY Series

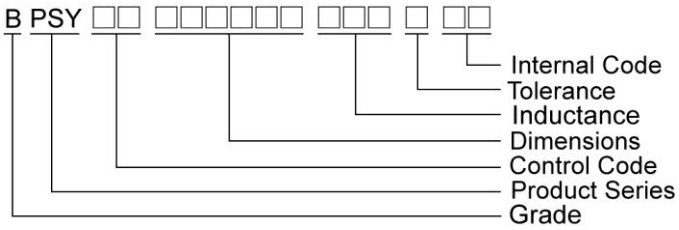
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Good Q factor, good energy storage and low resistance

Applications

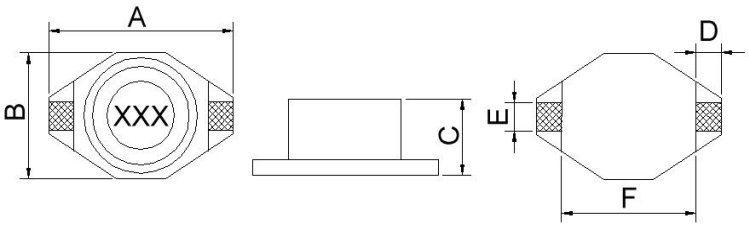
- Flash memory programmers
- Electric motors
- DC/DC converters

Product Identification

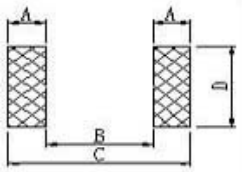


Shape and Dimensions

BPSY00130951



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F
BPSY00130951	12.95^{+0}	9.40^{+0}	5.08^{+0}	2.54	2.54	7.62

Dimensions in mm

TYPE	A	B	C	D
BPSY00130951	2.92	7.37	13.21	2.79

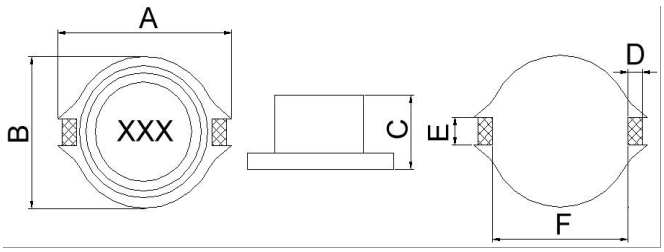
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

SMD Shielded Power Inductors - BPSY Series

Shape and Dimensions

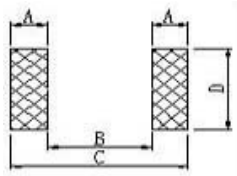
BPSY00191576



Dimensions in mm

TYPE	A	B	C	D	E	F
BPSY00191576	18.54^{+0}	15.24^{+0}	7.62^{+0}	2.54	2.54	12.7

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
BPSY00191576	2.92	12.45	18.29	2.79

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Q Min	Q Frequency (kHz)	DC Resistance (Ω) Max	SRF (MHz) Typ.	Isat (A)	Irms (A)
BPSY001309511R0M00	1.0	20	3	100	0.021	110	5.6	5.0
BPSY001309511R5M00	1.5	20	5	100	0.022	90	5.2	4.5
BPSY001309512R2M00	2.2	20	5	100	0.032	60	5.0	3.8
BPSY001309513R3M00	3.3	20	5	100	0.039	55	3.9	3.3
BPSY001309514R7M00	4.7	20	10	100	0.054	30	3.2	2.7
BPSY001309516R8M00	6.8	20	10	100	0.075	30	2.8	2.2
BPSY00130951100M00	10	20	10	100	0.101	28	2.4	2.0
BPSY00130951150M00	15	20	15	100	0.15	20	2.0	1.5
BPSY00130951220M00	22	20	20	100	0.207	15	1.6	1.3
BPSY00130951330M00	33	20	20	100	0.334	12	1.4	1.1
BPSY00130951470M00	47	20	20	100	0.472	10	1.0	0.8
BPSY00130951680M00	68	20			0.660	10	0.9	0.7
BPSY00130951101M00	100	20			1.110	7	0.8	0.6
BPSY00130951151M00	150	20			1.550	6	0.6	0.5
BPSY00130951221M00	220	20			2.000	5	0.5	0.37
BPSY00130951102M00	1000	20			8.300	2	0.32	0.17

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

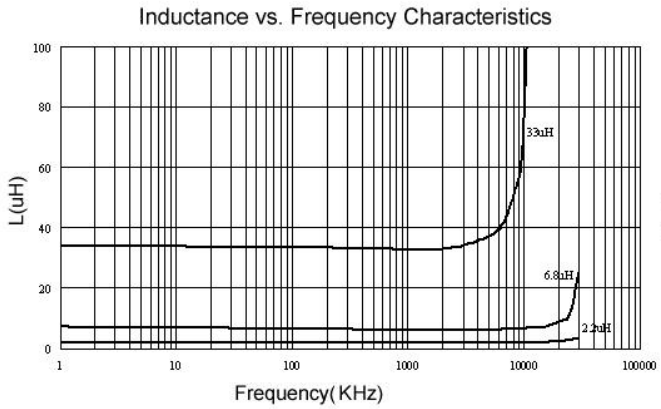
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

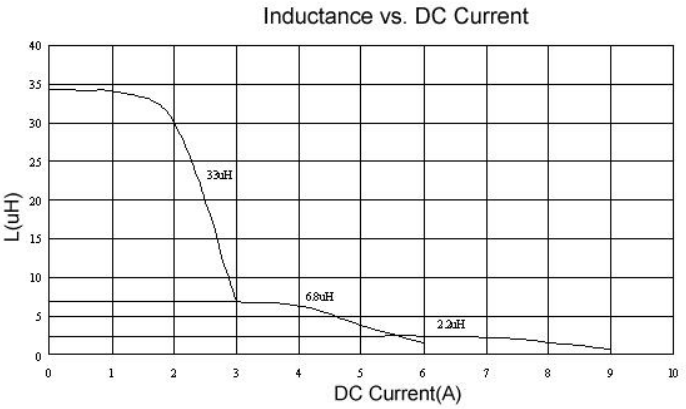
  L：E4980 or HP4284A , 100kHz/ 0.1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：HP4294A Impedance / Material Analyzer





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Q Min	Q Frequency (kHz)	DC Resistance (Ω) Max	Isat (A)	Irms (A)	SRF (MHz) Typ.
BPSY00191576100M00	10	20	40	100	0.040	5.5	3.9	24
BPSY00191576150M00	15	20	40	100	0.048	4.5	3.4	16
BPSY00191576220M00	22	20	30	100	0.059	3.5	3.1	14
BPSY00191576330M00	33	20	40	100	0.075	3.3	2.8	11
BPSY00191576470M00	47	20	40	100	0.097	2.7	2.4	8.0
BPSY00191576680M00	68	20	40	100	0.140	2.2	2.0	7.0
BPSY00191576101M00	100	20	40	100	0.210	1.7	1.7	5.5
BPSY00191576151M00	150	20	50	100	0.300	1.3	1.3	4.8
BPSY00191576221M00	220	20	50	100	0.470	1.1	1.1	4.0
BPSY00191576331M00	330	20	50	100	0.780	0.86	0.86	3.0
BPSY00191576471M00	470	20	50	100	1.08	0.73	0.73	2.4
BPSY00191576681M00	680	20	60	100	1.40	0.64	0.64	2.0
BPSY00191576102M00	1000	20	60	100	2.01	0.53	0.53	1.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

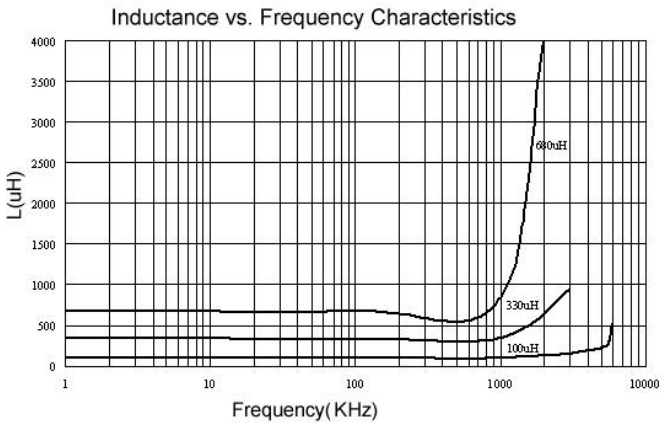
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

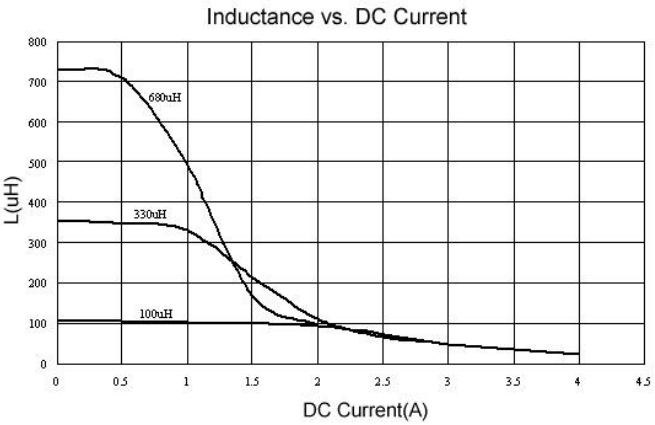
  L：E4980 or HP4284A , 100kHz/ 0.1V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：HP4294A Impedance / Material Analyzer





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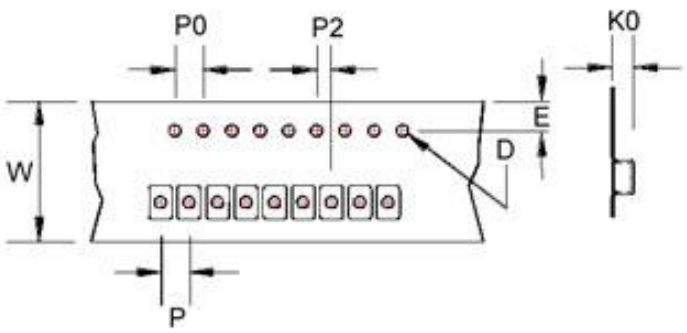
Pulse a YAGEO company

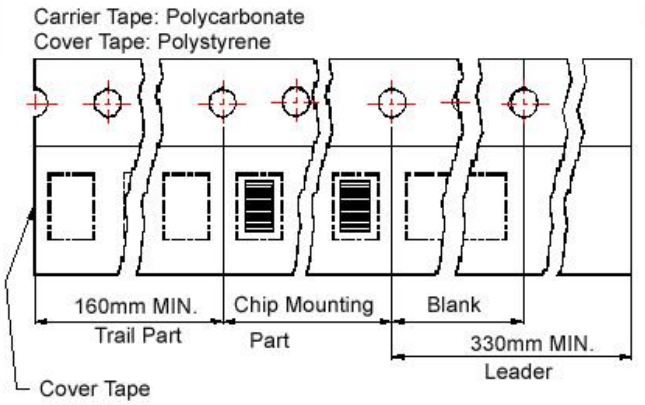
CHILISIN ELECTRONICS CORP.

Packaging Specifications

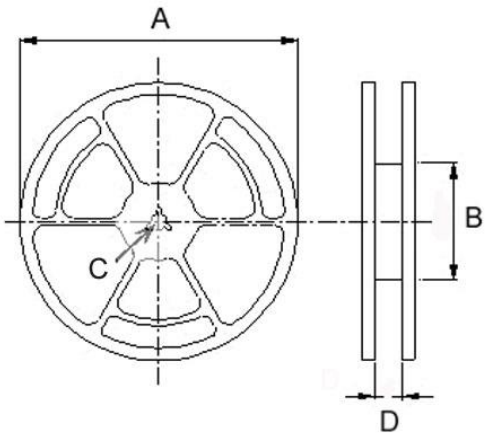
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	(PCS / REEL)
BPSY00130951	5.4	1.55	1.75	24	12	4	2	330	100	13	24.4	1000
BPSY00191576	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	250

BPSF Series

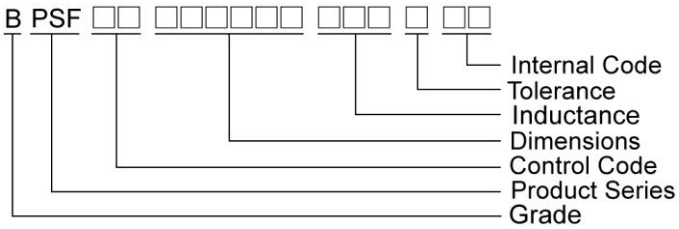
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

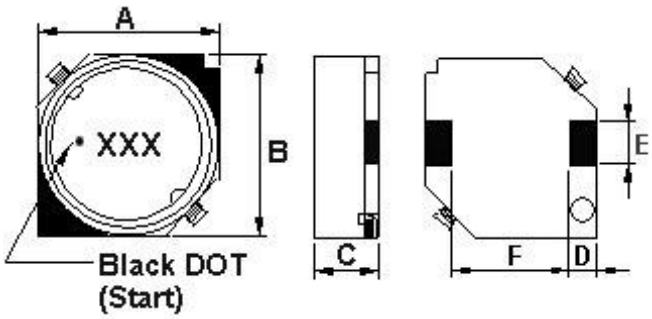
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Products Identification



Shape and Dimensions

BPSF00060628



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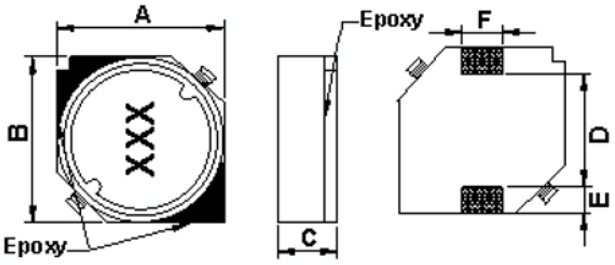
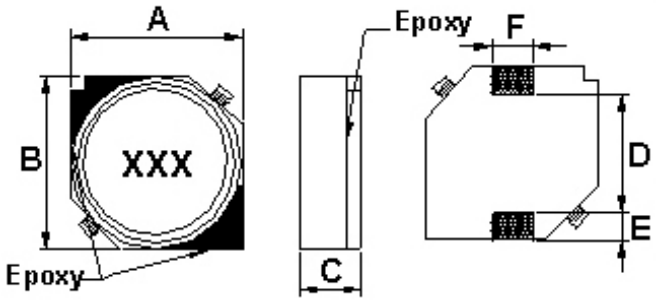


Dimension in mm

TYPE	A	B	C	D	E	F
BPSF00060628	6±0.2	6±0.2	2.8±0.2	1.5	2±0.1	3.0
BPSF00070728	7±0.2	7±0.2	2.8±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070730	7±0.2	7±0.2	3.0±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070732	7±0.2	7±0.2	3.2±0.2	4.0typ	1.5typ	2.0±0.2
BPSF00070745	7±0.2	7±0.2	4.5±0.3	4.0typ	1.5typ	2.0±0.2

Shape and Dimensions

BPSF00070755



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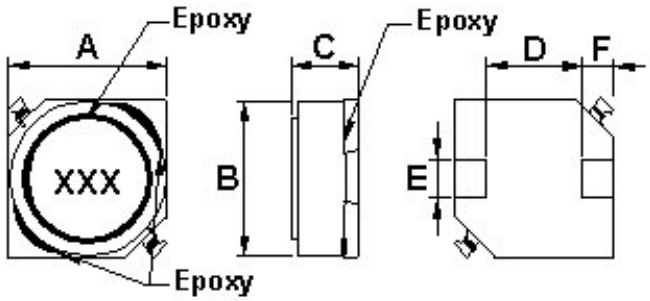
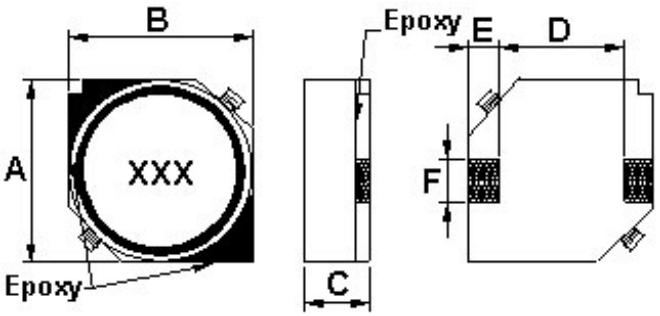


Dimension in mm

TYPE	A	B	C	D	E	F
BPSF00070755	7.0±0.2	7.0±0.2	5.5±0.3	4.0typ	1.5typ	2.0±0.2
BPSF00101045	10.1±0.3	10.1±0.3	4.5±0.3	6.0±0.2	3.0typ	2.0±0.2
BPSF00101058	10.1±0.3	10.1±0.3	5.8 Max	6.0±0.2	3.0±0.2	2.0±0.2

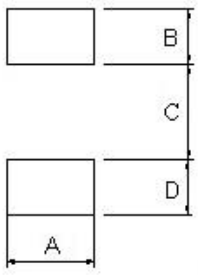
BPSF00131355/131365/131375



Dimension in mm

TYPE	A	B	C	D	E	F
BPSF00131355	12.5±0.3	12.5±0.3	5.5±0.3	8.6typ	2.0typ	3.0typ
BPSF00131365	12.5±0.3	12.5±0.3	6.5±0.35	8.6typ	2.0typ	3.0typ
BPSF00131375	12.5±0.3	12.5±0.3	7.5±0.35	8.6typ	2.0typ	3.0typ

Recommended Pattern



Dimension in mm

TYPE	A	B	C	D
BPSF00060628	2.2	1.5	4.0	1.5
BPSF00070728	2.2	1.5	4.9	1.5
BPSF00070730	2.2	1.5	4.9	1.5
BPSF00070732	2.2	1.5	4.9	1.5
BPSF00070745	2.2	1.5	4.9	1.5
BPSF00070755	2.2	1.5	4.9	1.5
BPSF00101045	3.2	2.5	5.6	2.5
BPSF00101058	3.2	2.5	5.6	2.5
BPSF00131355	3.2	2.5	8.6	2.5
BPSF00131365	3.2	2.5	8.6	2.5
BPSF00131375	3.2	2.5	8.6	2.5

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF000606284R7M00	4.7	20	1	0.0284	1.6	2.5
BPSF000606286R8M00	6.8	20	1	0.0354	1.5	2.2
BPSF00060628100M00	10	20	1	0.0532	1.3	1.8
BPSF00060628150M00	15	20	1	0.0745	1.0	1.4
BPSF00060628220M00	22	20	1	0.104	0.77	1.3
BPSF00060628330M00	33	20	1	0.148	0.69	1.1
BPSF00060628470M00	47	20	1	0.21	0.59	0.92
BPSF00060628680M00	68	20	1	0.29	0.50	0.78
BPSF00060628101M00	100	20	1	0.43	0.42	0.64

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)
BPSF000707282R2M00	2.2	20	1	0.032	1.8
BPSF000707283R3M00	3.3	20	1	0.037	1.6
BPSF000707284R7M00	4.7	20	1	0.045	1.5
BPSF000707285R0M00	5.0	20	1	0.045	2.4
BPSF000707286R8M00	6.8	20	1	0.059	1.3
BPSF000707288R2M00	8.2	20	1	0.065	1.1
BPSF00070728100M00	10	20	1	0.083	1.1
BPSF00070728150M00	15	20	1	0.13	0.88
BPSF00070728220M00	22	20	1	0.18	0.75
BPSF00070728330M00	33	20	1	0.24	0.65
BPSF00070728470M00	47	20	1	0.34	0.54

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)
BPSF000707303R3M00	3.3	20	1	0.023	1.8
BPSF000707304R7M00	4.7	20	1	0.036	1.6
BPSF000707306R8M00	6.8	20	1	0.041	1.5
BPSF00070730100M00	10	20	1	0.060	1.3
BPSF00070730150M00	15	20	1	0.084	1
BPSF00070730220M00	22	20	1	0.15	0.86
BPSF00070730330M00	33	20	1	0.16	0.65
BPSF00070730470M00	47	20	1	0.24	0.57
BPSF00070730680M00	68	20	1	0.31	0.49
BPSF00070730101M00	100	20	1	0.45	0.35
BPSF000707322R2M00	2.2	20	1	0.018	2.1
BPSF000707323R3M00	3.3	20	1	0.023	1.9
BPSF000707324R7M00	4.7	20	1	0.036	1.7
BPSF000707326R8M00	6.8	20	1	0.041	1.6
BPSF00070732100M00	10	20	1	0.053	1.4
BPSF00070732150M00	15	20	1	0.075	1.1
BPSF00070732220M00	22	20	1	0.11	0.96
BPSF00070732330M00	33	20	1	0.16	0.75
BPSF00070732470M00	47	20	1	0.24	0.67
BPSF00070732680M00	68	20	1	0.31	0.59
BPSF00070732101M00	100	20	1	0.45	0.45
BPSF00070732151M00	150	20	1	0.65	0.37
BPSF00070732221M00	220	20	1	1.05	0.29
BPSF00070732331M00	330	20	1	1.67	0.22
BPSF00070732471M00	470	20	1	2.05	0.2
BPSF00070732681M00	680	20	1	3.15	0.16
BPSF00070732102M00	1000	20	1	4.78	0.13

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF000707453R3M00	3.3	20	1	0.02	2.5	2.3
BPSF000707454R7M00	4.7	20	1	0.03	2	2.1
BPSF000707456R8M00	6.8	20	1	0.039	1.7	1.74
BPSF00070745100M00	10	20	1	0.036	1.3	1.78
BPSF00070745150M00	15	20	1	0.052	1.1	1.53
BPSF00070745220M00	22	20	1	0.061	0.9	1.34
BPSF00070745330M00	33	20	1	0.096	0.82	1.09
BPSF00070745470M00	47	20	1	0.125	0.75	0.92
BPSF00070745680M00	68	20	1	0.175	0.6	0.77
BPSF00070745101M00	100	20	1	0.25	0.5	0.65
BPSF00070745151M00	150	20	1	0.34	0.4	0.55
BPSF00070745221M00	220	20	1	0.52	0.33	0.45
BPSF00070745331M00	330	20	1	0.74	0.25	0.37
BPSF00070745471M00	470	20	1	1.05	0.22	0.31
BPSF00070745681M00	680	20	1	1.48	0.2	0.27
BPSF00070745102M00	1000	20	1	2.28	0.14	0.25

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 20℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)	Isat (A)	Irms (A) Max
BPSF000707551R5T00	1.5	30	100	0.0174±30%	6.2	4.0
BPSF000707552R2T00	2.2	30	100	0.0217±30%	5.3	3.5
BPSF000707553R3T00	3.3	30	100	0.0240±30%	4.3	3.3
BPSF000707554R7T00	4.7	30	100	0.0280±30%	3.6	3.1
BPSF000707556R8T00	6.8	30	100	0.0340±30%	3.0	2.8
BPSF00070755100M00	10	20	100	0.0391±20%	2.6	2.5
BPSF00070755150M00	15	20	100	0.0508±20%	2.1	2.2
BPSF00070755220M00	22	20	100	0.0643±20%	1.7	2.0
BPSF00070755470M00	47	20	100	0.1550±20%	0.8	1.0

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 100kHz 1V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001010454R7T00	4.7	20	1	0.0200	4.5	
BPSF00101045100M00	10	20	1	0.0364	3.0	2.5
BPSF00101045150M00	15	20	1	0.0472	2.4	2.2
BPSF00101045220M00	22	20	1	0.0591	2.1	1.9
BPSF00101045330M00	33	20	1	0.0815	1.6	1.7
BPSF00101045470M00	47	20	1	0.1	1.4	1.5
BPSF00101045680M00	68	20	1	0.14	1.2	1.3
BPSF00101045101M00	100	20	1	0.2	1.0	1.1
BPSF00101045151M00	150	20	1	0.35	0.79	0.81
BPSF00101045221M00	220	20	1	0.47	0.65	0.70
BPSF00101045271M00	270	20	1	0.58	0.58	0.60
BPSF00101045331M00	330	20	1	0.68	0.54	0.58
BPSF00101045471M00	470	20	1	1.03	0.47	0.47
BPSF00101045681M00	680	20	1	1.6	0.38	0.38
BPSF00101045102M00	1000	20	1	2.8	0.32	0.29
BPSF00101045152M00	1500	20	1	3.4	0.22	0.26

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω) Max	Isat (A)
BPSF001010584R7M00	4.7	20	1	0.035	4.0
BPSF00101058100M00	10	20	1	0.040	3.0
BPSF00101058220M00	22	20	1	0.0456	2.5
BPSF00101058330M00	33	20	1	0.085	2.1

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001313556R0M00	6	20	1	0.0164	3.6	4.9
BPSF00131355100M00	10	20	1	0.0215	3.4	4.3
BPSF00131355150M00	15	20	1	0.0259	2.8	3.9
BPSF00131355220M00	22	20	1	0.0338	2.3	3.4
BPSF00131355330M00	33	20	1	0.0415	1.9	3.1
BPSF00131355470M00	47	20	1	0.0618	1.6	2.5
BPSF00131355680M00	68	20	1	0.0832	1.3	2.2
BPSF00131355101M00	100	20	1	0.117	1.1	1.8
BPSF00131355151M00	150	20	1	0.19	0.88	1.4
BPSF00131355221M00	220	20	1	0.27	0.72	1.2
BPSF00131355331M00	330	20	1	0.41	0.59	1
BPSF00131355471M00	470	20	1	0.52	0.49	0.88
BPSF00131355681M00	680	20	1	0.76	0.43	0.73
BPSF00131355102M00	1000	20	1	1.12	0.34	0.6
BPSF00131355152M00	1500	20	1	1.73	0.29	0.48

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

  L：E4980 or HP4284A , 1kHz 0.5V

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω±20%)	Isat (A)	Irms (A) Max
BPSF001313652R0T00	2	30	1	0.0117	10	6.2
BPSF001313654R2T00	4.2	30	1	0.015	7.3	5.5
BPSF001313657R0T00	7	30	1	0.0177	5.7	5.0
BPSF00131365100M00	10	20	1	0.0202	5.0	4.8
BPSF00131365150M00	15	20	1	0.0237	4.2	4.4
BPSF00131365220M00	22	20	1	0.0316	3.5	3.8
BPSF00131365330M00	33	20	1	0.0490	2.8	3.4
BPSF00131365470M00	47	20	1	0.0578	2.4	2.8
BPSF00131365680M00	68	20	1	0.0787	2.0	2.4
BPSF00131365101M00	100	20	1	0.123	1.6	1.9
BPSF00131365151M00	150	20	1	0.210	1.2	1.5
BPSF00131365221M00	220	20	1	0.273	1.0	1.2
BPSF001313751R2T00	1.2	30	1	0.00828	13	8.2
BPSF001313752R7T00	2.7	30	1	0.0094	10	7.0
BPSF001313753R9T00	3.9	30	1	0.0104	9	6.7
BPSF001313754R7T00	4.7	30	1	0.0110	7.8	6.3
BPSF001313755R6T00	5.6	30	1	0.0116	7.8	6.3
BPSF001313756R8T00	6.8	30	1	0.0131	7.2	5.9
BPSF00131375100M00	10	20	1	0.0156	5.5	5.4
BPSF00131375150M00	15	20	1	0.0184	4.7	5.0
BPSF00131375220M00	22	20	1	0.0263	4.0	4.0
BPSF00131375330M00	33	20	1	0.0395	3.2	3.4
BPSF00131375470M00	47	20	1	0.0528	2.7	3.0
BPSF00131375680M00	68	20	1	0.0778	2.0	2.4
BPSF00131375101M00	100	20	1	0.1250	1.9	1.9
BPSF00131375151M00	150	20	1	0.1750	1.5	1.6
BPSF00131375221M00	220	20	1	0.2580	1.3	1.3
BPSF00131375331M00	330	20	1	0.340	0.9	

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：
  L：E4980 or HP4284A , 1kHz 0.5V
  RDC：Chroma 16502
  Isat：HP4284A+HP42841A or WK3260B+WK3265B

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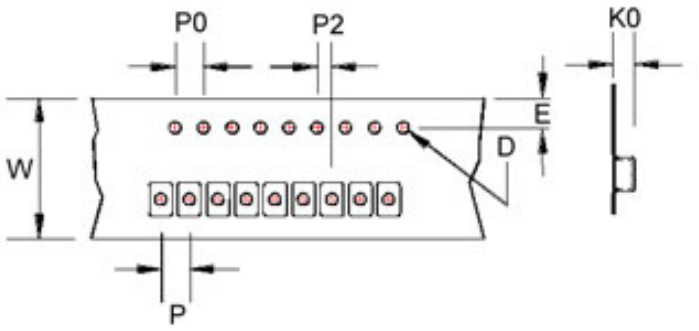
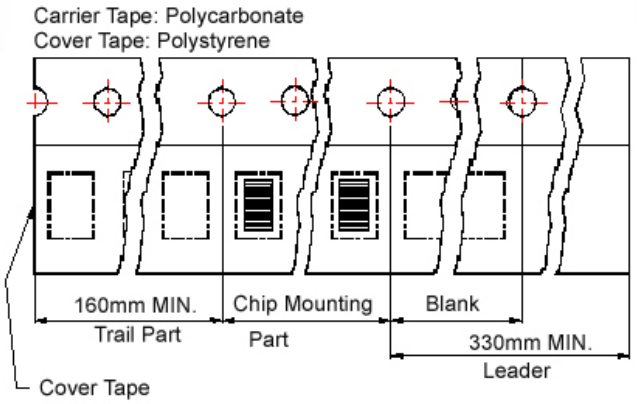
CHILISIN ELECTRONICS CORP.

Packaging Specifications

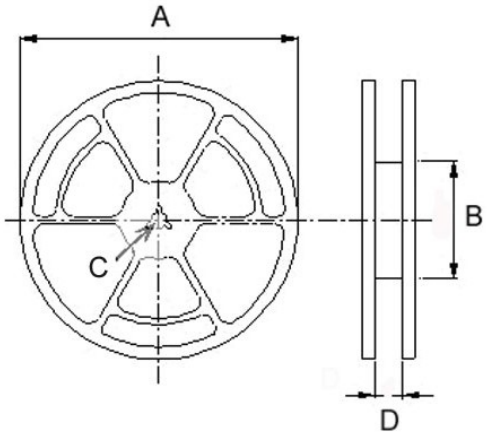
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSF00060628	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070728	3.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070730	3.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070732	3.5	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070745	4.8	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSF00070755	5.7	1.55	1.75	16	12	4	2	330	100	13	16.0	900
BPSF00101045	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00101058	5.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131355	6.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131365	7.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500
BPSF00131375	8.2	1.55	1.75	24	16	4	2	330	100	13	24.4	350

BPCF Series

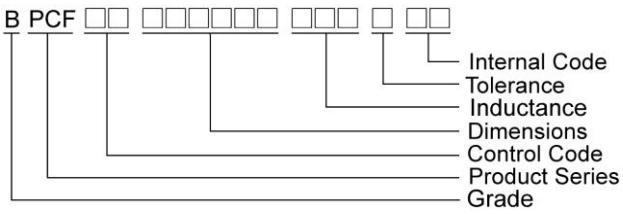
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

Applications

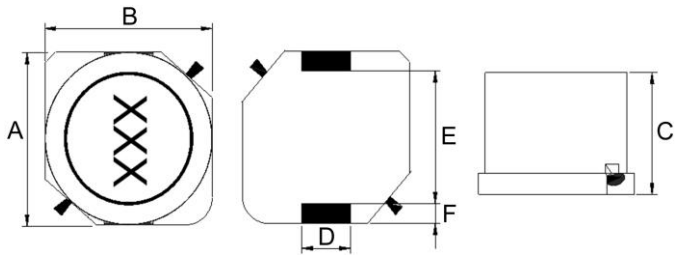
- AP Routers
- STBs
- LCD TVs and monitors
- Game consoles
- LED lightings
- DC/DC converters

Products Identification

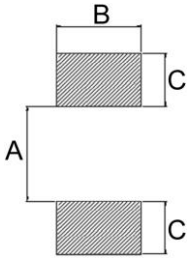


Shape and Dimensions

BPCF000606xx



Recommended Pattern



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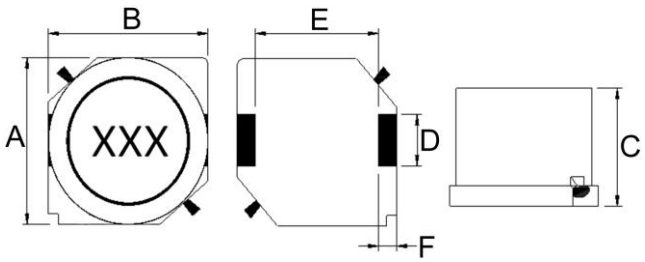
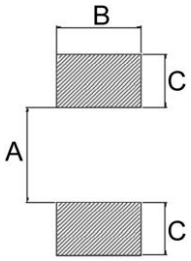




Dimension in mm

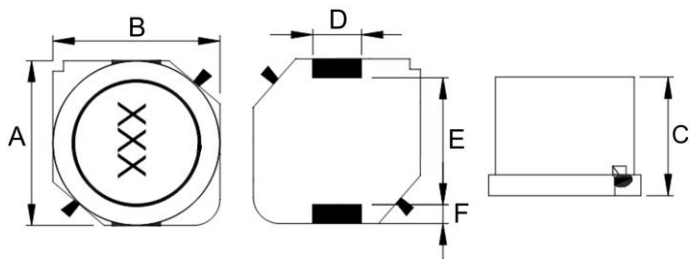
TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00060625	6.0±0.3	6.0±0.3	2.5±0.3	2.0±0.2	3.0±0.2	1.5±0.2	2.8	2.2	1.7
BPCF00060628	6.0±0.3	6.0±0.3	2.8±0.3	2.0±0.2	3.0±0.2	1.5±0.2	2.8	2.2	1.7
BPCF00070732	7.0±0.3	7.0±0.3	3.2±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7

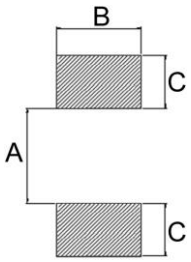
SMD Shielded Power Inductors - BPCF Series

Shape and Dimensions

Recommended Pattern

BPCF00070728\070745





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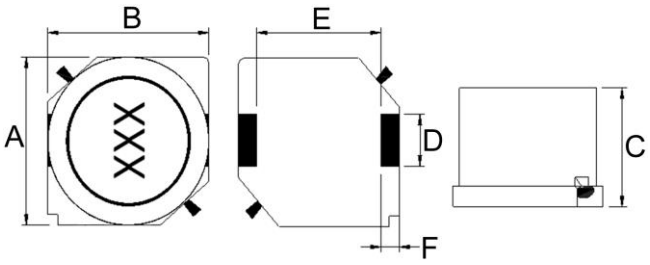

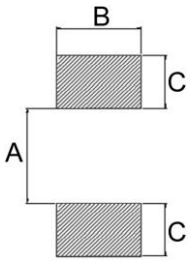

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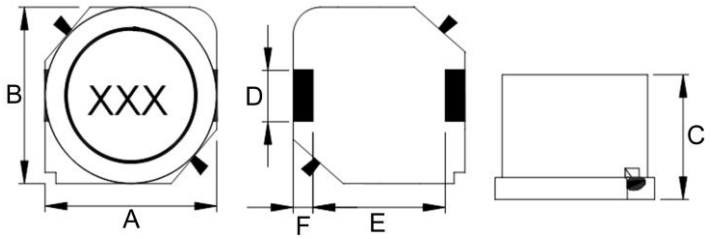
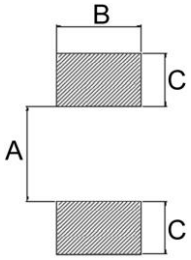
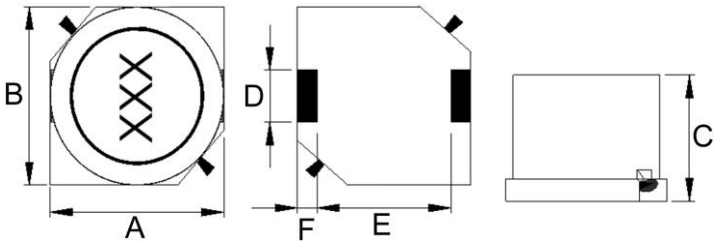
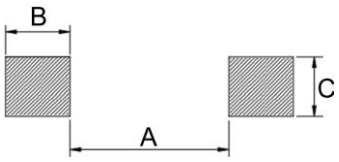




BPCF00101065





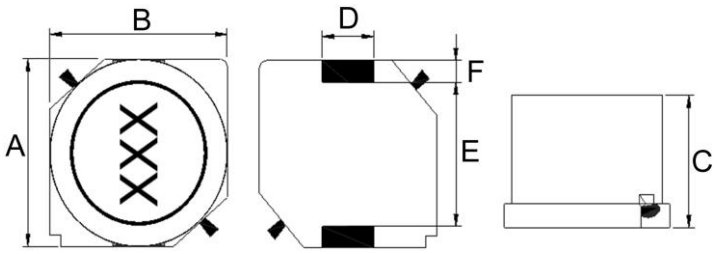
Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00070728	7.0±0.3	7.0±0.3	2.8±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00070745	7.0±0.3	7.0±0.3	4.5±0.3	2.0±0.2	4.0±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00070755	7.0±0.3	7.0±0.3	5.5±0.3	2.0±0.2	4. ±0.2	1.5±0.2	3.8	2.2	1.7
BPCF00101045	10±0.3	10±0.3	4.5±0.3	3.0±0.2	6.0±0.2	2.0±0.2	5.6	3.2	2.5
BPCF00101065	10±0.3	10±0.3	6.5±0.3	2.5±0.2	6.0±0.2	2.0±0.2	5.6	2.5	3

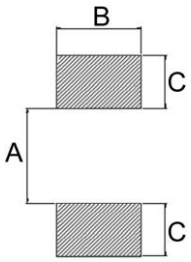
SMD Shielded Power Inductors - BPCF Series

Shape and Dimensions

BPCF001313xx



Recommended Pattern



Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPCF00131355	12.5±0.3	12.5±0.3	5.5±0.3	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5
BPCF00131365	12.5±0.3	12.5±0.3	6.5±0.35	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5
BPCF00131375	12.5±0.3	12.5±0.3	7.5±0.35	3.0±0.2	8.5±0.2	2.0±0.2	8.6	3.2	2.5

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000606252R2□00	2.2	20,30	100	0.0241	1.7	1.9	2R2
BPCF000606254R7□00	4.7	20,30	100	0.0306	1.5	1.8	4R7
BPCF000606255R6□00	5.6	30	100	0.0405	1.4	1.6	5R6
BPCF000606256R8□00	6.8	20,30	100	0.0442	1.3	1.5	6R8
BPCF00060625100□00	10	20,30	100	0.0573	1.0	1.3	100
BPCF00060625220□00	22	20,30	100	0.122	0.73	0.94	220
BPCF00060625101□00	100	20	100	0.500	0.33	0.47	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000606284R7□00	4.7	20,30	100	0.0284	1.6	2.5	4R7
BPCF000606286R8□00	6.8	20,30	100	0.0354	1.5	2.2	6R8
BPCF00060628100□00	10	20,30	100	0.0532	1.3	1.8	100
BPCF00060628150□00	15	20,30	100	0.090	1.0	1.4	150
BPCF00060628220□00	22	20,30	100	0.162	0.77	1.0	220
BPCF00060628101□00	100	20,30	100	0.57	0.42	0.64	101
BPCF00060628151□00	150	20,30	100	0.80	0.34	0.45	151

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Rated Current (A)Max	Marking
BPCF000707283R3□00	3.3	20,30	100	0.028	1.6	3R3
BPCF000707284R7□00	4.7	20,30	100	0.038	1.5	4R7
BPCF000707286R8□00	6.8	20,30	100	0.059	1.3	6R8
BPCF00070728100□00	10	20,30	100	0.083	1.1	100
BPCF00070728150□00	15	20,30	100	0.11	0.88	150
BPCF00070728220□00	22	20,30	100	0.18	0.75	220
BPCF00070728330□00	33	20,30	100	0.24	0.65	330
BPCF00070728470□00	47	20,30	100	0.34	0.54	470

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 15% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：40℃ Typ.)

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Rated Current (A)Max	Marking
BPCF000707321R5□00	1.5	20,30	100	0.018	3.4	1R5
BPCF000707322R2□00	2.2	20,30	100	0.021	2.8	2R2
BPCF000707323R3□00	3.3	20,30	100	0.023	1.9	3R3
BPCF000707324R7□00	4.7	20,30	100	0.036	1.7	4R7
BPCF000707326R8□00	6.8	20,30	100	0.041	1.6	6R8
BPCF00070732100□00	10	20,30	100	0.053	1.4	100
BPCF00070732150□00	15	20,30	100	0.075	1.1	150
BPCF00070732220□00	22	20,30	100	0.11	0.96	220
BPCF00070732330□00	33	20,30	100	0.16	0.75	330
BPCF00070732470□00	47	20,30	100	0.24	0.67	470
BPCF00070732680□00	68	20,30	100	0.31	0.59	680
BPCF00070732101□00	100	10,20	100	0.45	0.45	101
BPCF00070732151□00	150	10,20	100	0.65	0.37	151
BPCF00070732221□00	220	10,20	100	1.05	0.29	221
BPCF00070732331□00	330	10,20	100	1.67	0.22	331
BPCF00070732471□00	470	10,20	100	2.05	0.20	471
BPCF00070732681□00	680	10,20	100	3.15	0.16	681
BPCF00070732102□00	1000	10,20	100	4.78	0.13	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Rated Current : Based on inductance change (△L/Lo：drop 15% Max.) @ ambient temp. 25℃ and Based on temperature rise (△T：25℃ Typ.)

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000707451R0□00	1.0	20,30	100	0.011	4.5	4.5	1R0
BPCF000707452R2□00	2.2	20,30	100	0.015	3.4	3.3	2R2
BPCF000707453R3□00	3.3	20,30	100	0.020	2.5	2.3	3R3
BPCF000707454R7□00	4.7	20,30	100	0.030	2.0	2.1	4R7
BPCF000707456R8□00	6.8	20,30	100	0.039	1.7	1.74	6R8
BPCF00070745100□00	10	20,30	100	0.036	1.3	1.78	100
BPCF00070745150□00	15	20,30	100	0.052	1.1	1.53	150
BPCF00070745220□00	22	20,30	100	0.061	0.9	1.34	220
BPCF00070745330□00	33	20,30	100	0.096	0.82	1.09	330
BPCF00070745470□00	47	20,30	100	0.125	0.75	0.92	470
BPCF00070745680□00	68	20,30	100	0.175	0.60	0.77	680
BPCF00070745101□00	100	10,20	100	0.25	0.50	0.65	101
BPCF00070745151□00	150	10,20	100	0.34	0.40	0.55	151
BPCF00070745221□00	220	10,20	100	0.52	0.33	0.45	221
BPCF00070745331□00	330	10,20	100	0.74	0.25	0.37	331
BPCF00070745471□00	470	10,20	100	1.05	0.22	0.31	471
BPCF00070745681□00	680	10,20	100	1.48	0.20	0.27	681
BPCF00070745102□00	1000	10,20	100	2.28	0.14	0.25	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Irms for a 25℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±30%	Isat (A)Max	Irms (A)Typ	Marking
BPCF000707551R5□00	1.5	30	100	0.0174	6.2	4.0	1R5
BPCF000707552R2□00	2.2	30	100	0.0217	5.3	3.5	2R2
BPCF000707553R3□00	3.3	20,30	100	0.0240	4.3	3.3	3R3
BPCF000707554R7□00	4.7	20,30	100	0.0280	3.6	3.1	4R7
BPCF000707555R6□00	5.6	20,30	100	0.0310	3.0	2.9	5R6
BPCF000707556R8□00	6.8	20,30	100	0.0340	2.3	2.8	6R8
BPCF00070755100□00	10	20,30	100	0.0391	2.6	2.5	100
BPCF00070755150□00	15	20,30	100	0.0508	2.1	2.2	150
BPCF00070755220□00	22	20,30	100	0.0643	1.7	2.0	220
BPCF00070755330□00	33	20,30	100	0.12	1.3	1.4	330
BPCF00070755680□00	68	20,30	100	0.20	0.9	1.1	680

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 15% from its value without current
- Irms for a 30℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001010451R5□00	1.5	30	100	0.0118	7.5	6.0	1R5
BPCF001010453R3□00	3.3	30	100	0.0161	4.9	3.7	3R3
BPCF001010454R7□00	4.7	20,30	100	0.0198	4.2	3.5	4R7
BPCF001010455R6□00	5.6	30	100	0.0220	3.8	3.2	5R6
BPCF00101045100□00	10	20,30	100	0.0364	3.0	2.5	100
BPCF00101045150□00	15	20,30	100	0.0472	2.4	2.2	150
BPCF00101045220□00	22	20,30	100	0.0591	2.1	1.9	220
BPCF00101045330□00	33	20,30	100	0.0815	1.6	1.7	330
BPCF00101045470□00	47	20,30	100	0.10	1.4	1.5	470
BPCF00101045680□00	68	20,30	100	0.14	1.2	1.3	680
BPCF00101045101□00	100	20,30	100	0.20	1.0	1.1	101
BPCF00101045151□00	150	20,30	100	0.35	0.79	0.81	151
BPCF00101045221□00	220	20,30	100	0.47	0.65	0.70	221
BPCF00101045331□00	330	20,30	100	0.68	0.54	0.58	331
BPCF00101045471□00	470	20,30	100	1.03	0.47	0.47	471
BPCF00101045681□00	680	20,30	100	1.6	0.38	0.38	681
BPCF00101045102□00	1000	20,30	100	2.8	0.32	0.29	102
BPCF00101045152□00	1500	20,30	100	3.4	0.22	0.26	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Max	Marking
BPCF001010657R2□AE	7.2	30	100	0.0180	6.0	5.0	7R2
BPCF00101065220□AE	22	20,30	100	0.0376	3.6	3.41	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313556R0□00	6.0	30	100	0.0164	3.6	4.9	6R0
BPCF00131355100□00	10	20,30	100	0.0215	3.4	4.3	100
BPCF00131355150□00	15	20,30	100	0.0259	2.8	3.9	150
BPCF00131355220□00	22	20,30	100	0.0338	2.3	3.4	220
BPCF00131355330□00	33	20,30	100	0.0415	1.9	3.1	330
BPCF00131355470□00	47	20,30	100	0.0618	1.6	2.5	470
BPCF00131355680□00	68	20,30	100	0.0832	1.3	2.2	680
BPCF00131355101□00	100	10,20	100	0.117	1.1	1.8	101
BPCF00131355151□00	150	10,20	100	0.19	0.88	1.4	151
BPCF00131355221□00	220	10,20	100	0.27	0.72	1.2	221
BPCF00131355331□00	330	10,20	100	0.41	0.59	1.0	331
BPCF00131355471□00	470	10,20	100	0.52	0.49	0.88	471
BPCF00131355681□00	680	10,20	100	0.76	0.43	0.73	681
BPCF00131355102□00	1000	10,20	100	1.12	0.34	0.60	102
BPCF00131355122□00	1200	10,20	100	1.48	0.32	0.53	122
BPCF00131355152□00	1500	10,20	100	1.73	0.29	0.48	152

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313652R0□00	2.0	30	100	0.0117	10	6.2	2R0
BPCF001313654R2□00	4.2	30	100	0.0150	7.3	5.5	4R2
BPCF001313657R0□00	7.0	30	100	0.0177	5.7	5.0	7R0
BPCF00131365100□00	10	20,30	100	0.0202	5.0	4.8	100
BPCF00131365150□00	15	20,30	100	0.0237	4.2	4.4	150
BPCF00131365220□00	22	20,30	100	0.0316	3.5	3.8	220
BPCF00131365330□00	33	20,30	100	0.0406	2.8	3.4	330
BPCF00131365470□00	47	20,30	100	0.0578	2.4	2.8	470
BPCF00131365680□00	68	20,30	100	0.0787	2.0	2.4	680
BPCF00131365101□00	100	20,30	100	0.123	1.6	1.9	101
BPCF00131365221□00	220	20,30	100	0.273	1.0	1.2	221
BPCF00131365102□00	1000	20	100	1.1	0.3	0.35	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)±20%	Isat (A)Max	Irms (A)Typ	Marking
BPCF001313751R2□00	1.2	30	100	0.0069	13	8.2	1R2
BPCF001313752R7□00	2.7	30	100	0.0094	10	7.0	2R7
BPCF001313753R9□00	3.9	30	100	0.0104	9	6.7	3R9
BPCF001313755R6□00	5.6	30	100	0.0116	7.8	6.3	5R6
BPCF001313756R8□00	6.8	30	100	0.0131	7.2	5.9	6R8
BPCF00131375100□00	10	20,30	100	0.0156	5.5	5.4	100
BPCF00131375150□00	15	20,30	100	0.0184	4.7	5.0	150
BPCF00131375220□00	22	20,30	100	0.0263	4.0	4.0	220
BPCF00131375330□00	33	20,30	100	0.0395	3.2	3.4	330
BPCF00131375470□00	47	20,30	100	0.0528	2.7	3.0	470
BPCF00131375680□00	68	20,30	100	0.0778	2.0	2.4	680
BPCF00131375101□00	100	20,30	100	0.125	1.9	1.9	101
BPCF00131375151□00	150	20,30	100	0.175	1.5	1.6	151
BPCF00131375221□00	220	20,30	100	0.258	1.3	1.3	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

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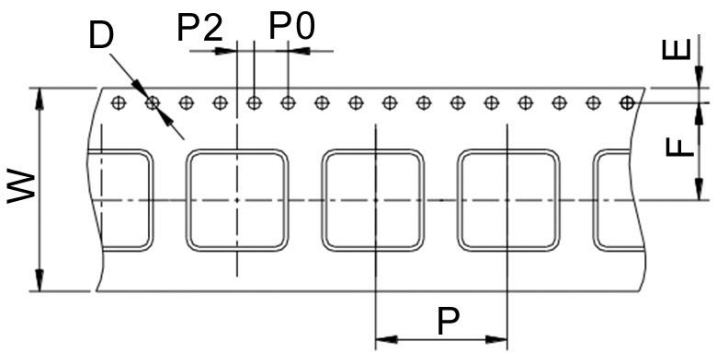
Pulse a YAGEO company

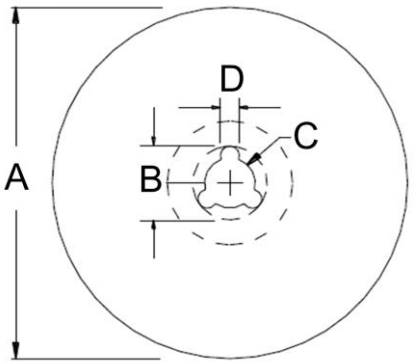
CHILISIN ELECTRONICS CORP.

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPCF00060625	16	1.5	1.75	7.5	8	4	2	330	20	13	2	2000
BPCF00060628	16	1.5	1.75	7.5	8	4	2	330	20	13	2	2000
BPCF00070728	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070732	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070745	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1000
BPCF00070755	16	1.5	1.75	7.5	12	4	2	330	20	13	2	700
BPCF00101045	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00101065	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131355	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131365	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500
BPCF00131375	24	1.5	1.75	11.5	16	4	2	330	20	13	2	500

BPSA Series

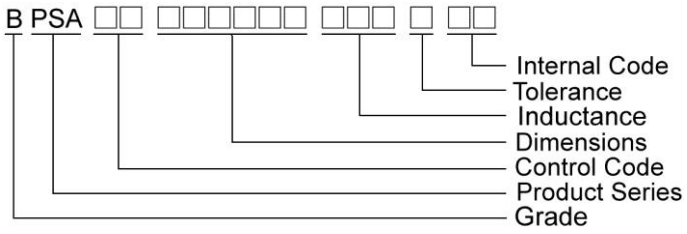
Features

- RoHS, Halogen Free and REACH Compliance
- Magnetically shielded type
- Cost effective
- Low DCR

Applications

- TV
- Laptop
- Mainboard
- Automotive devices
- Commercial devices

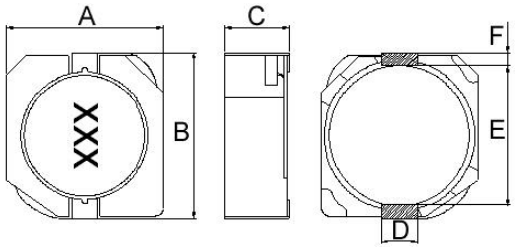
Product Identification

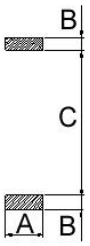


Shape and Dimensions

Recommended Pattern

BPSA00060630

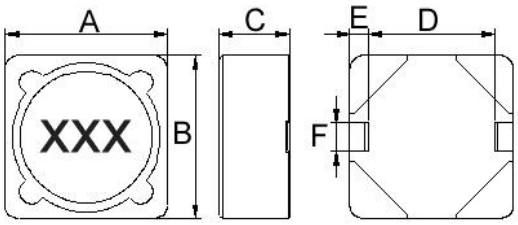


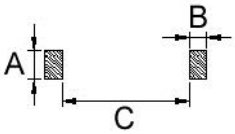


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPSA00060630	6.3^{+0}	6.3^{+0}	3.0^{+0}	2.0	4.0	0.9	2.2	1.5	4.0

BPSA00070748/070758/131358





Dimension in mm

TYPE	Shape and Dimensions						Recommended Pattern		
	A	B	C	D	E	F	A	B	C
BPSA00070748	7.3±0.2	7.3±0.2	4.8^{+0}	5.5	0.9	2.0	2.2	1.5	4.8
BPSA00070758	7.3±0.2	7.3±0.2	5.8^{+0}	5.5	0.9	2.0	2.2	1.5	4.8
BPSA00131358	12.5^{+0}	12.5^{+0}	5.8^{+0}	8.0	2.0	2.7	3.2	2.6	7.5

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CHILISIN ELECTRONICS CORP.

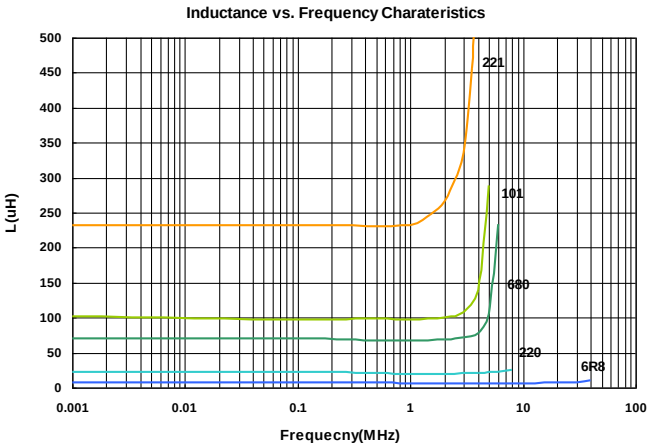
SMD Shielded Power Inductors - BPSA Series

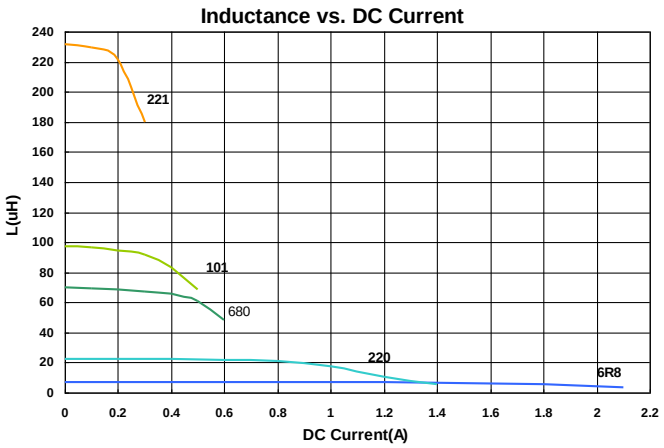
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000606306R8T00	6.8	30	100	35	42	1.50	2.20	6R8
BPSA00060630100M00	10	20	100	20	63.8	1.30	1.80	100
BPSA00060630150M00	15	20	100	15	89.4	1.00	1.40	150
BPSA00060630220M00	22	20	100	10	124	0.77	1.30	220
BPSA00060630330M00	33	20	100	7	177	0.69	1.10	330
BPSA00060630470M00	47	20	100	5	252	0.59	0.92	470
BPSA00060630680M00	68	20	100	4	348	0.50	0.78	680
BPSA00060630101M00	100	20	100	4	516	0.42	0.64	101
BPSA00060630151M00	150	20	100	4	780	0.34	0.50	151
BPSA00060630221M00	220	20	100	3.2	1170	0.26	0.38	221

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 25℃ temprature rise from 25℃ ambient
- Measure Equipment：
  L：L: WK6500B+WK6565, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





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SMD Shielded Power Inductors - BPSA Series

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000707483R3M00	3.3	20	100	90	24	2.50	2.30	3R3
BPSA000707484R7M00	4.7	20	100	65	36	2.00	2.10	4R7
BPSA000707486R8M00	6.8	20	100	24	40	1.70	1.74	6R8
BPSA00070748100M00	10	20	100	17	43.2	1.30	1.78	100
BPSA00070748150M00	15	20	100	14	62.4	1.10	1.53	150
BPSA00070748220M00	22	20	100	10.5	73.2	0.90	1.34	220
BPSA00070748330M00	33	20	100	10.0	115	0.82	1.09	330
BPSA00070748470M00	47	20	100	8.0	150	0.75	0.92	470
BPSA00070748680M00	68	20	100	7.0	210	0.60	0.77	680
BPSA00070748101M00	100	20	100	6.0	300	0.50	0.65	101
BPSA00070748151M00	150	20	100	4.0	408	0.40	0.55	151
BPSA00070748221M00	220	20	100	3.5	624	0.33	0.45	221
BPSA00070748331M00	330	20	100	3.0	880	0.25	0.37	331
BPSA00070748471M00	470	20	100	2.5	1260	0.22	0.31	471
BPSA00070748681M00	680	20	100	2.1	1770	0.20	0.27	681

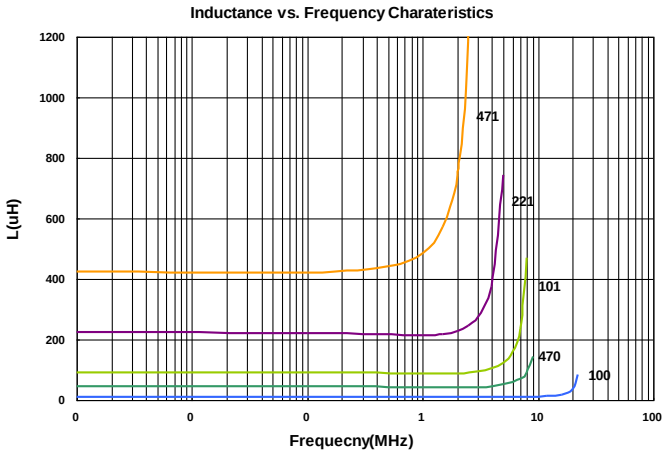
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

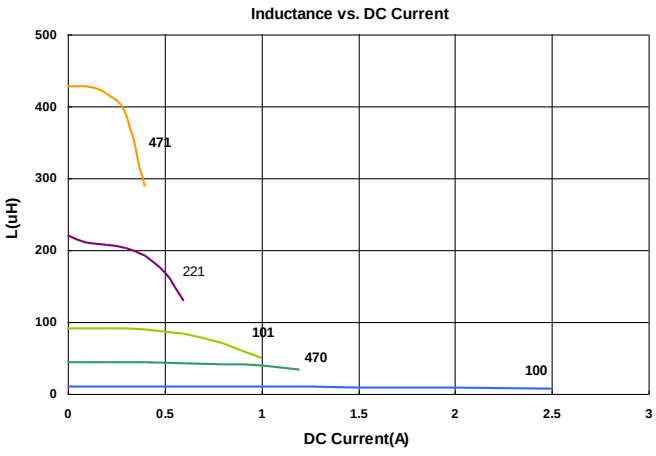
- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 20℃ temprature rise from 25℃ ambient
- Measure Equipment：

  L：L: WK6500B+WK6565, 100kHz/ 1V

  RDC：Chroma 16502

  Isat：WK3260B+WK3265B





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

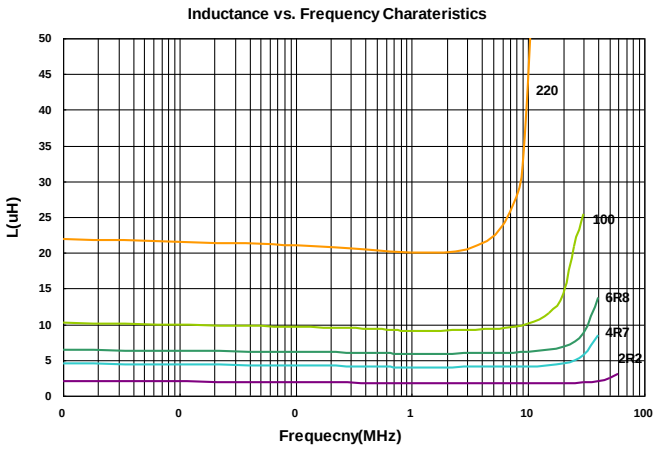
SMD Shielded Power Inductors - BPSA Series

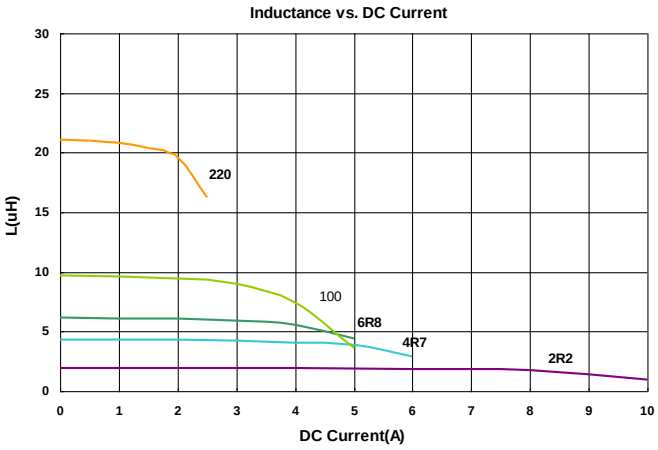
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA000707581R5T00	1.5	30	100	75	20	6.2	4.0	1R5
BPSA000707582R2T00	2.2	30	100	55	23	5.3	3.5	2R2
BPSA000707583R3T00	3.3	30	100	48	31	4.3	3.3	3R3
BPSA000707584R7T00	4.7	30	100	38	36	3.6	3.1	4R7
BPSA000707586R8T00	6.8	30	100	35	44	3.0	2.8	6R8
BPSA00070758100M00	10	20	100	22	46	2.6	2.5	100
BPSA00070758150M00	15	20	100	14	60.9	2.1	2.2	150
BPSA00070758220M00	22	20	100	8	77	1.7	2.0	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：L: WK6500B+WK6565, 100kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





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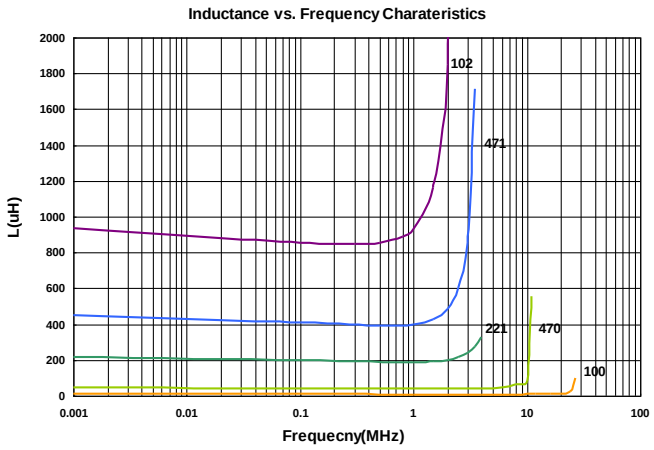
SMD Shielded Power Inductors - BPSA Series

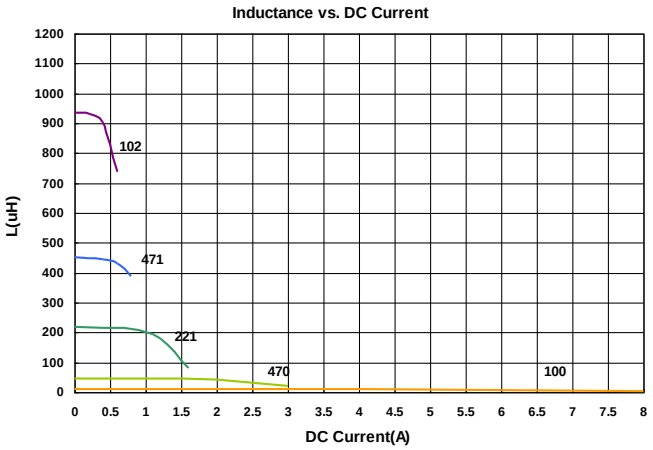
Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Min	RDC (mΩ) Max	Isat (A)	Irms (A)	Marking
BPSA001313586R0T00	6	30	1	26	19.7	3.6	4.9	6R0
BPSA00131358100M00	10	20	1	17	25.8	3.4	4.3	100
BPSA00131358150M00	15	20	1	15	31.0	2.8	3.9	150
BPSA00131358220M00	22	20	1	11	40.6	2.3	3.4	220
BPSA00131358330M00	33	20	1	10	49.8	1.9	3.1	330
BPSA00131358470M00	47	20	1	8	74.2	1.6	2.5	470
BPSA00131358680M00	68	20	1	7	99.8	1.3	2.2	680
BPSA00131358101M00	100	20	1	5.5	140	1.1	1.8	101
BPSA00131358151M00	150	30	1	4.5	228	0.88	1.4	151
BPSA00131358221M00	220	20	1	3.0	324	0.72	1.2	221
BPSA00131358331M00	330	20	1	3.0	492	0.59	1.0	331
BPSA00131358471M00	470	20	1	2.5	624	0.49	0.88	471
BPSA00131358681M00	680	20	1	2.0	912	0.43	0.73	681
BPSA00131358102M00	1000	20	1	1.7	1344	0.34	0.60	102
BPSA00131358152M00	1500	20	1	1.4	2076	0.29	0.48	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range - 40℃ ~ 125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 30℃ temprature rise from 25℃ ambient.
- Measure Equipment：
  L：L: WK6500B+WK6565, 1kHz/ 1V
  RDC：Chroma 16502
  Isat：WK3260B+WK3265B





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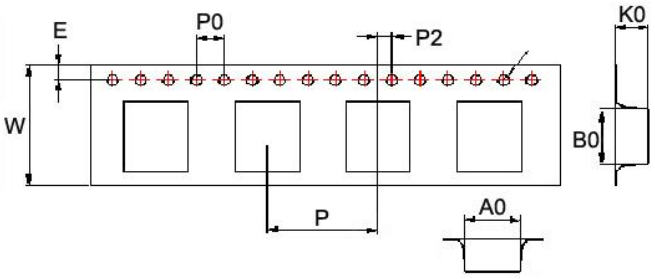
Pulse a YAGEO company

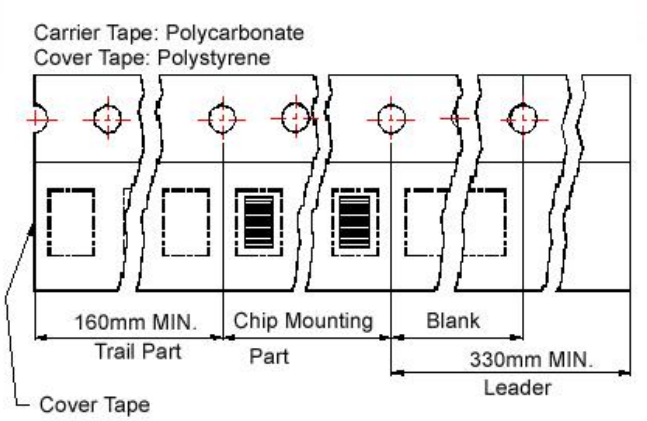
CHILISIN ELECTRONICS CORP.

Packaging Specifications

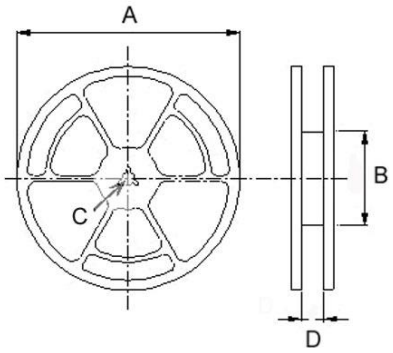
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSA00060630	6.3	6.55	3.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSA00070748	7.6	7.6	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSA00070758	7.8	7.8	6.0	1.55	1.75	16	12	4	2	330	100	13	16.0	900
BPSA00131358	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.2	600

BPXX Series

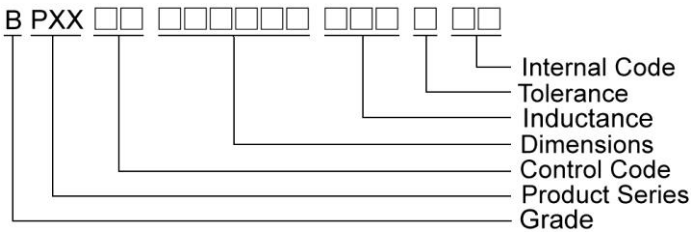
Features

- RoHS compliant
- Low Rdc and high saturation current for portable DC to DC converter line
- High magnetic shielding construction provides high resolution for EMC protection
- Support lead-free soldering

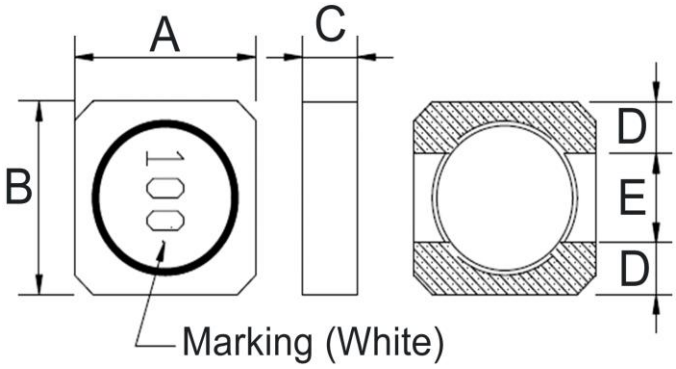
Applications

- Notebook PC
- Set top box
- LCD TV
- LCD displays
- Portable communication device
- DC/DC converters
- SSD
- Networking

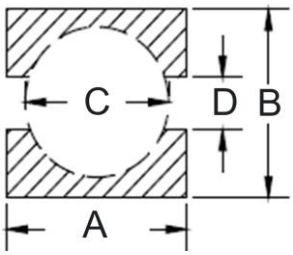
Product Identification



Shape and Dimensions



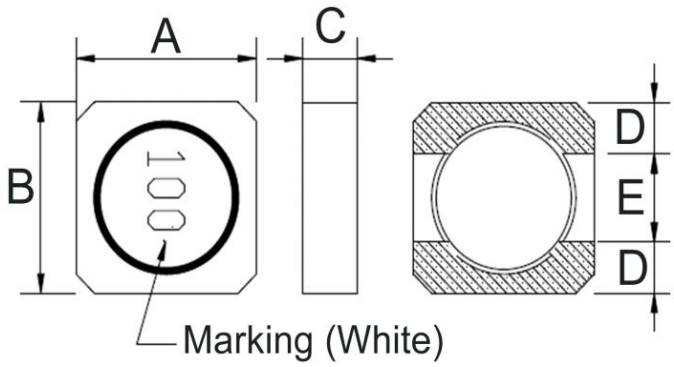
Recommended Pattern



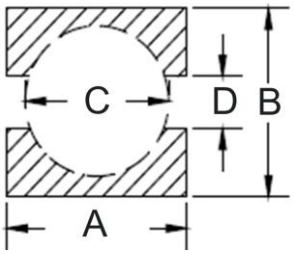
Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00030310	3.0±0.2	3.0±0.2	1.0Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030312	3.0±0.2	3.0±0.2	1.2Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030315	3.0±0.2	3.0±0.2	1.5Max	0.9	1.2	3.3	3.3	2.2	1.0
BPXX00030320	3.0±0.2	3.0±0.2	2.0Max	0.9	1.2	3.3	3.3	2.2	1.0

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	Shape and Dimensions					Recommended Pattern			
	A	B	C	D	E	A	B	C	D
BPXX00040412	4.0±0.2	4.0±0.2	1.2Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040418	4.0±0.2	4.0±0.2	1.8Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040420	4.0±0.2	4.0±0.2	2.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00040430	4.0±0.2	4.0±0.2	3.0Max	1.1	1.8	4.4	4.4	2.9	1.8
BPXX00050515	5.0±0.2	5.0±0.2	1.5Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050520	5.0±0.2	5.0±0.2	2.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00050530	5.0±0.2	5.0±0.2	3.0Max	1.75	1.5	5.4	5.4	3.8	1.5
BPXX00060620	6.0±0.2	6.0±0.2	2.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060625	6.0±0.2	6.0±0.2	2.5Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060630	6.0±0.2	6.0±0.2	3.0Max	2.0	2.0	6.6	6.6	4.6	2.0
BPXX00060635	6.0±0.2	6.0±0.2	3.5Max	2.0	2.0	6.6	6.6	4.6	2.0

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030310R47□00	0.47	20,30	100	0.07	2.3	2.3	R47
BPXX00030310R56□00	0.56	20,30	100	0.08	2.0	2.0	R56
BPXX000303101R0□00	1.0	20,30	100	0.085	1.6	1.75	1R0
BPXX000303101R2□00	1.2	20,30	100	0.10	1.5	1.7	1R2
BPXX000303101R5□00	1.5	20,30	100	0.12	1.3	1.6	1R5
BPXX000303101R8□00	1.8	20,30	100	0.15	1.2	1.4	1R8
BPXX000303102R2□00	2.2	20,30	100	0.22	1.1	1.15	2R2
BPXX000303103R3□00	3.3	20,30	100	0.22	0.82	1.05	3R3
BPXX000303103R9□00	3.9	20,30	100	0.25	0.78	0.95	3R9
BPXX000303104R7□00	4.7	20,30	100	0.33	0.72	0.80	4R7
BPXX000303105R6□00	5.6	20,30	100	0.40	0.66	0.78	5R6
BPXX000303106R8□00	6.8	20,30	100	0.45	0.62	0.74	6R8
BPXX000303108R2□00	8.2	20,30	100	0.56	0.55	0.71	8R2
BPXX00030310100□00	10	20,30	100	0.63	0.51	0.64	100
BPXX00030310120□00	12	20,30	100	0.74	0.45	0.55	120
BPXX00030310150□00	15	20,30	100	0.95	0.40	0.50	150
BPXX00030310180□00	18	20,30	100	1.0	0.37	0.47	180
BPXX00030310220□00	22	20,30	100	1.2	0.33	0.41	220
BPXX00030310330□00	33	20,30	100	2.0	0.27	0.35	330
BPXX00030310470□00	47	20,30	100	3.2	0.24	0.31	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00030312R47□00	0.47	30	100	0.05	2.5	2.5	R47
BPXX000303121R0□00	1.0	30	100	0.08	1.8	1.8	1R0
BPXX000303121R2□00	1.2	30	100	0.095	1.65	1.7	1R2
BPXX000303121R5□00	1.5	30	100	0.11	1.5	1.65	1R5
BPXX000303122R0□00	2.0	30	100	0.15	1.3	1.3	2R0
BPXX000303122R2□00	2.2	30	100	0.15	1.3	1.3	2R2
BPXX000303123R3□00	3.3	30	100	0.18	1.0	1.2	3R3
BPXX000303124R7□00	4.7	20,30	100	0.28	0.85	1.05	4R7
BPXX000303125R6□00	5.6	20,30	100	0.36	0.80	0.85	5R6
BPXX000303126R8□00	6.8	20,30	100	0.42	0.75	0.70	6R8
BPXX000303128R2□00	8.2	20,30	100	0.55	0.65	0.65	8R2
BPXX00030312100□00	10	20,30	100	0.62	0.57	0.6	100
BPXX00030312150□00	15	20,30	100	0.8	0.5	0.5	150
BPXX00030312220□00	22	20,30	100	1.2	0.4	0.42	220

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303151R0□00	1.0	20,30	100	0.075	2.0	2.0	1R0
BPXX000303151R5□00	1.5	20,30	100	0.10	1.8	1.7	1R5
BPXX000303151R8□00	1.8	20,30	100	0.10	1.5	1.4	1R8
BPXX000303152R1□00	2.1	20,30	100	0.11	1.5	1.4	2R1
BPXX000303152R2□00	2.2	20,30	100	0.11	1.5	1.4	2R2
BPXX000303153R3□00	3.3	20,30	100	0.13	1.3	1.4	3R3
BPXX000303154R7□00	4.7	20,30	100	0.20	1.1	1.2	4R7
BPXX000303156R8□00	6.8	20,30	100	0.30	0.91	0.90	6R8
BPXX00030315100□00	10	20,30	100	0.44	0.65	0.75	100
BPXX00030315150□00	15	20,30	100	0.70	0.55	0.59	150
BPXX00030315180□00	18	20,30	100	0.75	0.53	0.58	180
BPXX00030315220□00	22	20,30	100	0.825	0.49	0.57	220
BPXX00030315330□00	33	20,30	100	1.30	0.42	0.48	330
BPXX00030315470□00	47	20,30	100	1.55	0.32	0.40	470
BPXX00030315680□00	68	20,30	100	2.25	0.28	0.33	680
BPXX00030315101□00	100	20,30	100	3.4	0.23	0.26	101
BPXX00030315471□00	470	20,30	100	15	0.11	0.11	471

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000303201R0□00	1.0	20,30	100	0.04	2.8	2.5	1R0
BPXX000303202R2□00	2.2	20,30	100	0.08	2.0	1.8	2R2
BPXX000303203R3□00	3.3	20,30	100	0.10	1.8	1.6	3R3
BPXX000303204R7□00	4.7	20,30	100	0.14	1.6	1.4	4R7
BPXX000303206R8□00	6.8	20,30	100	0.17	1.4	1.2	6R8
BPXX00030320100□00	10	20,30	100	0.4	1.0	0.80	100
BPXX00030320220□00	22	20,30	100	0.6	0.7	0.65	220
BPXX00030320330□00	33	20,30	100	1.0	0.6	0.52	330
BPXX00030320470□00	47	20,30	100	1.35	0.5	0.50	470

Note: When ordering, please specify tolerance 00de. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040412R33□00	0.33	20,30	100	0.023	5.6	3.7	R33
BPXX00040412R47□00	0.47	30	100	0.045	4.0	2.5	R47
BPXX00040412R68□00	0.68	30	100	0.055	3.5	2.45	R68
BPXX000404121R0□00	1.0	30	100	0.060	2.8	2.4	1R0
BPXX000404121R2□00	1.2	20,30	100	0.065	2.65	2.3	1R2
BPXX000404121R5□00	1.5	30	100	0.07	2.5	2.2	1R5
BPXX000404122R2□00	2.2	20,30	100	0.10	2.1	1.75	2R2
BPXX000404123R3□00	3.3	20,30	100	0.13	1.5	1.45	3R3
BPXX000404124R7□00	4.7	20,30	100	0.175	1.4	1.3	4R7
BPXX000404125R6□00	5.6	20,30	100	0.26	1.3	1.1	5R6
BPXX000404126R8□00	6.8	20,30	100	0.34	1.2	0.98	6R8
BPXX00040412100□00	10	20,30	100	0.35	0.7	0.75	100
BPXX00040412150□00	15	20,30	100	0.55	0.6	0.73	150
BPXX00040412470□00	47	20,30	100	1.4	0.38	0.52	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00040418R56□00	0.56	20,30	100	0.030	4.8	2.80	R56
BPXX00040418R68□00	0.68	30	100	0.035	4.5	2.75	R68
BPXX000404181R0□00	1.0	30	100	0.04	3.4	2.7	1R0
BPXX000404181R5□00	1.5	30	100	0.05	2.7	2.5	1R5
BPXX000404181R6□00	1.6	20,30	100	0.05	2.7	2.5	1R6
BPXX000404181R8□00	1.8	30	100	0.06	2.6	2.4	1R8
BPXX000404182R2□00	2.2	20,30	100	0.07	2.5	2.2	2R2
BPXX000404182R5□00	2.5	20,30	100	0.075	2.4	2.1	2R5
BPXX000404183R3□00	3.3	20,30	100	0.08	2.2	2.0	3R3
BPXX000404183R6□00	3.6	20,30	100	0.10	2.0	1.8	3R6
BPXX000404183R9□00	3.9	20,30	100	0.10	2.0	1.8	3R9
BPXX000404184R7□00	4.7	20,30	100	0.125	1.7	1.6	4R7
BPXX000404185R6□00	5.6	20,30	100	0.135	1.5	1.45	5R6
BPXX000404186R8□00	6.8	20,30	100	0.15	1.2	1.30	6R8
BPXX00040418100□00	10	20,30	100	0.20	1.1	1.15	100
BPXX00040418150□00	15	20,30	100	0.28	0.86	0.90	150
BPXX00040418180□00	18	20,30	100	0.30	0.78	0.88	180
BPXX00040418220□00	22	20,30	100	0.36	0.74	0.85	220
BPXX00040418330□00	33	20,30	100	0.46	0.58	0.77	330
BPXX00040418470□00	47	20,30	100	0.75	0.51	0.63	470
BPXX00040418680□00	68	20,30	100	1.07	0.41	0.48	680
BPXX00040418820□00	82	20,30	100	1.22	0.38	0.44	820
BPXX00040418101□00	100	20,30	100	1.64	0.34	0.42	101
BPXX00040418121□00	120	20,30	100	1.88	0.31	0.38	121
BPXX00040418151□00	150	20,30	100	2.45	0.27	0.31	151
BPXX00040418181□00	180	20,30	100	2.91	0.24	0.30	181
BPXX00040418221□00	220	20,30	100	4.2	0.22	0.24	221
BPXX00040418331□00	330	20,30	100	5.9	0.18	0.22	331
BPXX00040418471□00	470	20,30	100	7.1	0.14	0.20	471
BPXX00040418561□00	560	20,30	100	10	0.13	0.18	561
BPXX00040418681□00	680	20,30	100	11.5	0.12	0.16	681
BPXX00040418821□00	820	20,30	100	17.8	0.11	0.12	821
BPXX00040418102□00	1000	20,30	100	19.4	0.10	0.10	102
BPXX00040418152□00	1500	20,30	100	30	0.08	0.08	152

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404201R8□00	1.8	30	100	0.051	1.97	2.37	1R8
BPXX000404202R2□00	2.2	30	100	0.059	1.72	2.19	2R2
BPXX000404203R3□00	3.3	30	100	0.078	1.52	1.94	3R3
BPXX000404204R7□00	4.7	20,30	100	0.098	1.24	1.71	4R7
BPXX000404206R8□00	6.8	20,30	100	0.131	1.05	1.47	6R8
BPXX00040420100□00	10	20,30	100	0.185	0.85	1.0	100
BPXX00040420150□00	15	20,30	100	0.241	0.70	0.9	150
BPXX00040420220□00	22	20,30	100	0.431	0.56	0.8	220
BPXX00040420330□00	33	20,30	100	0.628	0.47	0.69	330
BPXX00040420470□00	47	20,30	100	0.934	0.39	0.56	470
BPXX00040420680□00	68	20,30	100	1.2	0.32	0.5	680
BPXX00040420101□00	100	20,30	100	1.4	0.26	0.4	101
BPXX00040420561□00	560	20,30	100	6.6	0.12	0.2	561

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000404301R0□00	1.0	30	100	0.020	2.80	3.3	1R0
BPXX000404301R2□00	1.2	30	100	0.025	2.65	3.1	1R2
BPXX000404301R5□00	1.5	30	100	0.028	2.6	3.0	1R5
BPXX000404302R2□00	2.2	30	100	0.035	2.3	2.7	2R2
BPXX000404303R3□00	3.3	20,30	100	0.045	2.1	2.5	3R3
BPXX000404304R7□00	4.7	20,30	100	0.055	2.0	2.3	4R7
BPXX000404306R8□00	6.8	20,30	100	0.078	1.5	2.0	6R8
BPXX00040430100□00	10	20,30	100	0.130	1.0	1.5	100
BPXX00040430120□00	12	20,30	100	0.175	0.9	1.4	120
BPXX00040430150□00	15	20,30	100	0.21	0.85	1.3	150
BPXX00040430220□00	22	20,30	100	0.29	0.8	1.1	220
BPXX00040430330□00	33	20,30	100	0.455	0.7	0.85	330
BPXX00040430470□00	47	20,30	100	0.685	0.6	0.70	470
BPXX00040430680□00	68	20,30	100	0.955	0.5	0.55	680
BPXX00040430820□00	82	20,30	100	1.1	0.45	0.45	820
BPXX00040430101□00	100	20,30	100	1.5	0.4	0.40	101
BPXX00040430151□00	150	20,30	100	2.4	0.3	0.35	151
BPXX00040430181□00	180	20,30	100	3.6	0.25	0.30	181
BPXX00040430471□00	470	20,30	100	5.5	0.14	0.15	471
BPXX00040430102□00	1000	20,30	100	9	0.12	0.12	102
BPXX00040430122□00	1200	20,30	100	14	0.11	0.11	122
BPXX00040430222□00	2200	20,30	100	18	0.09	0.09	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505151R0□00	1.0	20,30	100	0.05	3.5	2.65	1R0
BPXX000505151R2□00	1.2	20,30	100	0.05	3.5	2.65	1R2
BPXX000505151R3□00	1.3	20,30	100	0.065	2.6	2.35	1R3
BPXX000505151R5□00	1.5	20,30	100	0.065	2.6	2.35	1R5
BPXX000505151R8□00	1.8	30	100	0.075	2.6	2.15	1R8
BPXX000505152R2□00	2.2	20,30	100	0.09	2.6	2.0	2R2
BPXX000505153R3□00	3.3	20,30	100	0.125	2.0	1.8	3R3
BPXX000505154R7□00	4.7	20,30	100	0.150	1.7	1.62	4R7
BPXX000505155R6□00	5.6	20,30	100	0.175	1.6	1.45	5R6
BPXX000505156R8□00	6.8	20,30	100	0.225	1.4	1.25	6R8
BPXX000505158R2□00	8.2	20,30	100	0.28	1.3	1.05	8R2
BPXX00050515100□00	10	20,30	100	0.30	1.1	0.95	100
BPXX00050515120□00	12	20,30	100	0.35	1.0	0.84	120
BPXX00050515150□00	15	20,30	100	0.36	0.7	0.84	150
BPXX00050515180□00	18	20,30	100	0.55	0.65	0.83	180
BPXX00050515220□00	22	20,30	100	0.675	0.65	0.82	220
BPXX00050515330□00	33	20,30	100	0.75	0.50	0.70	330
BPXX00050515470□00	47	20,30	100	1.0	0.45	0.57	470
BPXX00050515560□00	56	20,30	100	1.13	0.40	0.52	560
BPXX00050515680□00	68	20,30	100	1.45	0.38	0.47	680
BPXX00050515101□00	100	20,30	100	1.95	0.28	0.42	101
BPXX00050515121□00	120	20,30	100	2.5	0.28	0.37	121
BPXX00050515151□00	150	20,30	100	3.4	0.24	0.33	151
BPXX00050515221□00	220	20,30	100	4.5	0.20	0.29	221
BPXX00050515331□00	330	20,30	100	7.4	0.165	0.22	331
BPXX00050515471□00	470	20,30	100	7.5	0.12	0.21	471
BPXX00050515561□00	560	20,30	100	8.5	0.11	0.19	561
BPXX00050515681□00	680	20,30	100	10.6	0.10	0.175	681
BPXX00050515102□00	1000	20,30	100	20	0.08	0.15	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX00050520R30□00	0.30	30	100	0.00875	6.0	7	R30
BPXX00050520R33□00	0.33	30	100	0.01065	5.8	6	R33
BPXX00050520R68□00	0.68	30	100	0.01470	4.0	5.2	R68
BPXX000505201R0□00	1.0	30	100	0.02455	3.5	4.0	1R0
BPXX000505201R3□00	1.3	30	100	0.035	3.2	3.3	1R3
BPXX000505201R5□00	1.5	30	100	0.035	3.2	3.3	1R5
BPXX000505201R8□00	1.8	20,30	100	0.045	3.0	3.0	1R8
BPXX000505202R2□00	2.2	20,30	100	0.055	2.7	2.75	2R2
BPXX000505202R5□00	1.3	20,30	100	0.060	2.6	2.6	2R5
BPXX000505202R7□00	1.3	20,30	100	0.062	2.5	2.6	2R7
BPXX000505203R3□00	3.3	20,30	100	0.065	2.4	2.5	3R3
BPXX000505204R7□00	4.7	20,30	100	0.08	2.1	2.0	4R7
BPXX000505205R6□00	5.6	20,30	100	0.09	1.95	1.9	5R6
BPXX000505206R8□00	6.8	20,30	100	0.105	1.8	1.7	6R8
BPXX000505208R2□00	8.2	20,30	100	0.12	1.6	1.6	8R2
BPXX00050520100□00	10	20,30	100	0.15	1.4	1.5	100
BPXX00050520150□00	15	20,30	100	0.27	1.1	1.2	150
BPXX00050520220□00	22	20,30	100	0.35	0.78	0.9	220
BPXX00050520330□00	33	20,30	100	0.48	0.65	0.8	330
BPXX00050520470□00	47	20,30	100	0.75	0.60	0.7	470
BPXX00050520101□00	100	20,30	100	1.21	0.34	0.55	101
BPXX00050520121□00	120	20,30	100	1.60	0.30	0.48	121
BPXX00050520151□00	150	20,30	100	2.25	0.28	0.40	151
BPXX00050520221□00	220	20,30	100	3.3	0.26	0.37	221
BPXX00050520331□00	330	20,30	100	4.2	0.22	0.30	331

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000505301R2□00	1.2	20,30	100	0.040	3.5	2.65	1R2
BPXX000505302R2□00	2.2	30	100	0.057	3.1	2.15	2R2
BPXX000505303R3□00	3.3	20,30	100	0.066	2.5	1.80	3R3
BPXX000505304R7□00	4.7	20,30	100	0.083	2.0	1.75	4R7
BPXX000505306R8□00	6.8	20,30	100	0.099	1.7	1.6	6R8
BPXX000505308R2□00	8.2	20,30	100	0.12	1.6	1.5	8R2
BPXX00050530100□00	10	20,30	100	0.15	1.5	1.4	100
BPXX00050530120□00	12	20,30	100	0.16	1.4	1.3	120
BPXX00050530150□00	15	20,30	100	0.175	1.3	1.2	150
BPXX00050530220□00	22	20,30	100	0.19	1.0	1.1	220
BPXX00050530270□00	27	20,30	100	0.27	0.9	1.0	270
BPXX00050530330□00	33	20,30	100	0.35	0.8	0.9	330
BPXX00050530470□00	47	20,30	100	0.50	0.75	0.75	470
BPXX00050530560□00	56	20,30	100	0.65	0.65	0.65	560
BPXX00050530680□00	68	20,30	100	0.75	0.60	0.60	680
BPXX00050530101□00	100	20,30	100	0.90	0.45	0.55	101
BPXX00050530221□00	220	20,30	100	1.35	0.25	0.45	221
BPXX00050530331□00	330	20,30	100	1.8	0.17	0.42	331
BPXX00050530821□00	820	20,30	100	5.0	0.12	0.26	821
BPXX00050530102□00	1000	20,30	100	5.1	0.11	0.25	102
BPXX00050530152□00	1500	20	100	7.6	0.09	0.18	152
BPXX00050530222□00	2200	20	100	11	0.08	0.15	222

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606201R2□00	1.2	30	100	0.03	3.5	3.0	1R2
BPXX000606201R3□00	1.3	30	100	0.0305	3.2	3.0	1R3
BPXX000606201R5□00	1.5	30	100	0.0305	3.2	3.0	1R5
BPXX000606201R8□00	1.8	30	100	0.0375	3.0	2.6	1R8
BPXX000606202R2□00	2.2	30	100	0.04	2.7	2.4	2R2
BPXX000606202R5□00	2.5	20,30	100	0.04	2.7	2.4	1R5
BPXX000606203R3□00	3.3	20,30	100	0.06	2.5	2.3	3R3
BPXX000606204R7□00	4.7	20,30	100	0.07	2.1	2.0	4R7
BPXX000606206R2□00	6.2	20,30	100	0.085	1.9	1.8	6R2
BPXX000606206R8□00	6.8	20,30	100	0.085	1.9	1.8	6R8
BPXX000606208R2□00	8.2	20,30	100	0.125	1.7	1.5	8R2
BPXX00060620100□00	10	20,30	100	0.15	1.4	1.2	100
BPXX00060620150□00	15	20,30	100	0.22	1.1	1.1	150
BPXX00060620220□00	22	20,30	100	0.32	1.0	0.9	220
BPXX00060620330□00	33	20,30	100	0.45	0.9	0.8	330
BPXX00060620470□00	47	20,30	100	0.6	0.85	0.7	470
BPXX00060620101□00	100	20,30	100	1.2	0.5	0.45	101

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606251R0□00	1.0	30	100	0.035	5.5	1.80	1R0
BPXX000606251R2□00	1.2	30	100	0.040	5.3	1.65	1R2
BPXX000606251R5□00	1.5	30	100	0.040	5.3	1.65	1R5
BPXX000606252R2□00	2.2	30	100	0.045	3.9	1.40	2R2
BPXX000606253R3□00	3.3	20,30	100	0.055	3.5	1.35	3R3
BPXX000606254R7□00	4.7	20,30	100	0.065	3.1	1.3	4R7
BPXX000606255R0□00	5.0	30	100	0.065	3.1	1.3	5R0
BPXX000606256R8□00	6.8	20,30	100	0.095	2.7	1.3	6R8
BPXX000606258R2□00	8.2	20,30	100	0.100	2.2	1.3	8R2
BPXX00060625100□00	10	20,30	100	0.105	2.0	1.3	100
BPXX00060625150□00	15	20,30	100	0.135	2.0	1.2	150
BPXX00060625220□00	22	20,30	100	0.175	1.4	1.1	220
BPXX00060625330□00	33	20,30	100	0.26	1.1	0.9	330
BPXX00060625470□00	47	20,30	100	0.42	0.98	0.8	470
BPXX00060625680□00	68	20,30	100	0.42	0.59	0.74	470
BPXX00060625101□00	100	20,30	100	0.61	0.48	0.64	101
BPXX00060625121□00	120	20,30	100	0.75	0.43	0.58	121
BPXX00060625151□00	150	20,30	100	0.92	0.40	0.54	151
BPXX00060625221□00	220	20,30	100	1.3	0.32	0.50	221
BPXX00060625331□00	330	20,30	100	2.0	0.26	0.39	331
BPXX00060625471□00	470	20,30	100	2.6	0.22	0.37	471
BPXX00060625681□00	680	20,30	100	4	0.18	0.26	681
BPXX00060625102□00	1000	20,30	100	6	0.15	0.24	102

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat (A)Max	Irms (A)Typ	Marking
BPXX000606301R0□00	1.0	30	100	0.01385	4.2	4.5	1R0
BPXX000606301R5□00	1.5	30	100	0.0190	4.0	4.0	1R5
BPXX000606302R2□00	2.2	30	100	0.02375	3.8	3.8	2R2
BPXX000606302R7□00	2.7	20,30	100	0.032	3.7	3.7	2R7
BPXX000606303R3□00	3.3	20,30	100	0.036	3.6	2.75	3R3
BPXX000606304R7□00	4.7	20,30	100	0.045	3.3	2.5	4R7
BPXX000606305R0□00	5.0	30	100	0.045	3.3	2.5	5R0
BPXX000606306R2□00	6.2	20,30	100	0.056	2.5	2.4	6R2
BPXX000606306R8□00	6.8	20,30	100	0.056	2.5	2.4	6R8
BPXX000606308R2□00	8.2	20,30	100	0.070	2.3	2.3	8R2
BPXX00060630100□00	10	20,30	100	0.085	2.2	2.2	100
BPXX00060630120□00	12	20,30	100	0.10	1.9	1.9	120
BPXX00060630150□00	15	20,30	100	0.12	1.7	1.6	150
BPXX00060630180□00	18	20,30	100	0.14	1.6	1.5	180
BPXX00060630220□00	22	20,30	100	0.16	1.5	1.4	220
BPXX00060630330□00	33	20,30	100	0.22	1.3	1.1	330
BPXX00060630470□00	47	20,30	100	0..3	1.1	1.0	470

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat or Irms

Standard Specifications

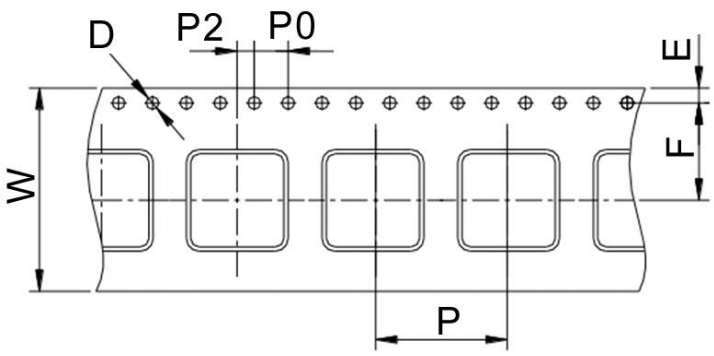
Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC (Ω)Max	Isat 1 (A)Typ	Isat 2 (A)Typ	Isat 3 (A)Typ	Irms (A)Typ	Marking
BPXX00060635100□00	10	20,30	100	0.10	2.3	2.4	2.5	1.8	100
BPXX00060635220□00	22	20,30	100	0.145	1.6	1.7	1.7	2.0	220
BPXX00060635330□00	33	20,30	100	0.18	1.3	1.4	1.5	1.3	330
BPXX00060635470□00	47	20,30	100	0.245	1.1	1.2	1.2	1.2	470
BPXX00060635560□00	56	20,30	100	0.280	1.0	1.0	1.1	1.07	560
BPXX00060635680□00	68	20,30	100	0.345	0.9	0.94	0.96	1.1	680
BPXX00060635101□00	100	20,30	100	0.375	0.46	0.52	0.54	0.9	101
BPXX00060635221□00	220	20,30	100	0.72	0.31	0.36	0.37	0.64	221
BPXX00060635471□00	470	20,30	100	1.6	0.22	0.25	0.26	0.43	471
BPXX00060635681□00	680	20,30	100	2.2	0.17	0.19	0.21	0.37	681
BPXX00060635102□00	1000	20,30	100	3.2	0.14	0.17	0.18	0.30	102
BPXX00060635152□00	1500	20,30	100	4.6	0.12	0.13	0.14	0.26	152
BPXX00060635103□00	10000	20,30	1	30.5	0.05	0.055	0.06	0.095	103

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

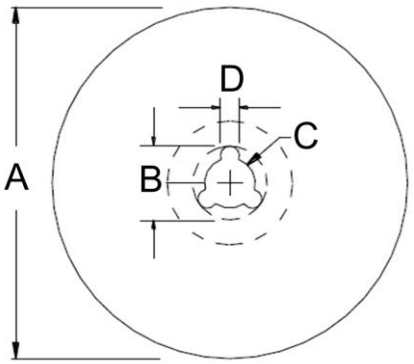
- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat 1 for Inductance drop 10% from its value without current
- Isat 2 for Inductance drop 20% from its value without current
- Isat 3 for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Rated DC Current：The less value which is Isat1~3 or Irms

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	W	D	E	F	P	P0	P2	A	B	C	D	PCS / Reel
BPXX00030310	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030312	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1500
BPXX00030315	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00030320	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040412	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040418	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040420	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00040430	12	1.5	1.75	5.5	8	4	2	178	20	13	2	600
BPXX00050515	12	1.5	1.75	5.5	8	4	2	178	20	13	2	1000
BPXX00050520	12	1.5	1.75	5.5	8	4	2	178	20	13	2	900
BPXX00050530	12	1.5	1.75	5.5	8	4	2	330	20	13	2	2000
BPXX00060620	16	1.5	1.75	7.5	12	4	2	330	20	13	2	2000
BPXX00060625	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060630	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500
BPXX00060635	16	1.5	1.75	7.5	12	4	2	330	20	13	2	1500

BPSD Series

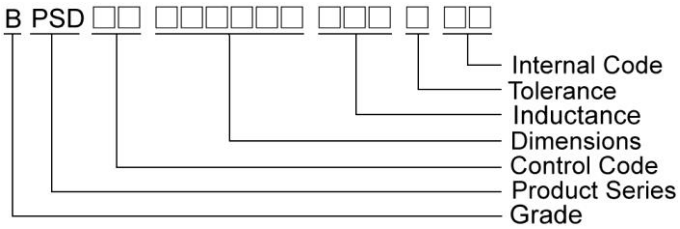
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range

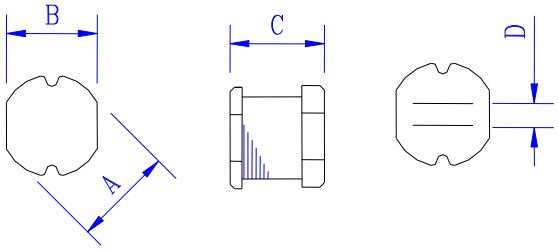
Applications

- Graphic cards
- DC/DC converters

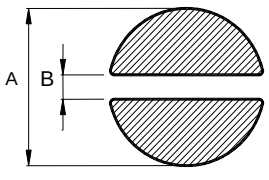
Product Identification



Shape and Dimensions



Recommended Pattern



PAD LAYOUT

Dimensions in mm

TYPE	A	B	C	D
BPSD00030315	3.3±0.3	3.0±0.3	1.5±0.3	1.0
BPSD00030321	3.3±0.3	3.0±0.3	2.1±0.3	1.0
BPSD00050432	4.5±0.3	4.0±0.3	3.2±0.3	1.2
BPSD00060525	5.8±0.3	5.2±0.3	2.5±0.3	2.0
BPSD00060530	5.8±0.3	5.2±0.3	3±0.3	2.0
BPSD00060545	5.8±0.3	5.2±0.3	4.5±0.4	1.3
BPSD00080735	7.8±0.3	7.0±0.3	3.5±0.3	2.1
BPSD00080750	7.8±0.3	7.0±0.3	5.0±0.3	2.1
BPSD00109040	10.0±0.3	9.0±0.3	4.0±0.5	2.1
BPSD00100954	10.0±0.4	9.0±0.4	5.4±0.4	2.1
BPSD00100965	10.0±0.4	9.0±0.4	6.5±0.4	2.1

Dimensions in mm

Dim	A	B
BPSD00030315	4.5	1.0
BPSD00030321	4.5	1.0
BPSD00050432	5.5	1.2
BPSD00060525	6.8	2.0
BPSD00060530	6.8	2.0
BPSD00060545	6.8	1.3
BPSD00080735	8.8	2.1
BPSD00080750	8.8	2.1
BPSD00109040	11	2.1
BPSD00100954	11	2.1
BPSD00100965	11	2.1

Electrical Characteristics

Part Number	Inductance (µH)	Tolerance (±%)	Test Frequency	RDC (Ω)	Isat (A)	Irms (A)	Marking
BPSD000303152R2□00	2.2	20	1 MHz,1 V	0.10±30%	0.79	1	CC
BPSD000303153R3□00	3.3	20	1 MHz,1 V	0.11±30%	0.73	0.97	DD
BPSD000303154R7□00	4.7	20	1 MHz,1 V	0.15±30%	0.65	0.93	EH
BPSD000303155R6□00	5.6	20	1 MHz,1 V	0.15±30%	0.6	0.9	FG
BPSD000303156R8□00	6.8	20	1 MHz,1 V	0.20±30%	0.77	0.85	GI
BPSD00030315100□00	10	20	1 MHz,1 V	0.30±30%	0.45	0.52	KA
BPSD00030315150□00	15	20	1 MHz,1 V	0.58±30%	0.3	0.35	MA
BPSD00030315220□00	22	10,20	1 MHz,1 V	0.71±30%	0.25	0.29	LA
BPSD00030315330□00	33	20	1 MHz,1 V	1.10±30%	0.2	0.23	NA
BPSD00030315390□00	39	20	1 MHz,1 V	1.30±30%	0.17	0.2	PA
BPSD00030315470□00	47	20	1 MHz,1 V	1.30±30%	0.17	0.2	OA
BPSD00030315680□00	68	20	1 MHz,1 V	2.20±30%	0.13	0.15	VA
BPSD00030315101□00	100	20	1 MHz,1 V	3.50±30%	0.1	0.12	KB
BPSD00030315221□00	220	20	1 MHz,1 V	10.92Max	0.07	0.08	LB

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- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00030321R82□00	0.82	30	7.96 MHz,1 V	0.06	2.2	2.53	AX
BPSD000303211R0□00	1	20	7.96 MHz,1 V	0.07	2.08	2.39	BA
BPSD000303211R2□00	1.2	20	7.96 MHz,1 V	0.08	2	2.30	BC
BPSD000303211R4□00	1.4	20	7.96 MHz,1 V	0.09	1.86	2.14	BE
BPSD000303211R5□00	1.5	20	7.96 MHz,1 V	0.11	1.8	2.07	BF
BPSD000303211R8□00	1.8	20	7.96 MHz,1 V	0.11	1.8	2.07	BI
BPSD000303212R2□00	2.2	20	7.96 MHz,1 V	0.13	1.39	1.60	CC
BPSD000303212R7□00	2.7	20	7.96 MHz,1 V	0.14	1.32	1.52	CH
BPSD000303213R3□00	3.3	10,20	7.96 MHz,1 V	0.17	1.25	1.44	DD
BPSD000303213R9□00	3.9	20	7.96 MHz,1 V	0.19	1.2	1.38	DJ
BPSD000303214R7□00	4.7	20	7.96 MHz,1 V	0.21	1.13	1.30	EH
BPSD000303215R6□00	5.6	20	7.96 MHz,1 V	0.22	0.91	1.05	FG
BPSD000303216R8□00	6.8	20	7.96 MHz,1 V	0.25	0.85	0.98	GI
BPSD000303217R0□00	7	20	7.96 MHz,1 V	0.28	0.82	0.94	HA
BPSD000303218R2□00	8.2	20	7.96 MHz,1 V	0.28	0.82	0.94	IC
BPSD00030321100□00	10	10,20	2.52 MHz,1 V	0.32	0.74	0.85	KA
BPSD00030321120□00	12	20	2.52 MHz,1 V	0.35	0.64	0.74	QA
BPSD00030321150□00	15	20	2.52 MHz,1 V	0.4	0.6	0.69	MA
BPSD00030321180□00	18	20	2.52 MHz,1 V	0.48	0.54	0.62	RA
BPSD00030321220□00	22	10,20	2.52 MHz,1 V	0.58	0.5	0.58	LA
BPSD00030321270□00	27	20	2.52 MHz,1 V	0.65	0.43	0.49	SA
BPSD00030321330□00	33	20	2.52 MHz,1 V	0.8	0.4	0.46	NA
BPSD00030321390□00	39	20	2.52 MHz,1 V	0.9	0.37	0.43	PA
BPSD00030321470□00	47	20	2.52 MHz,1 V	1.19	0.36	0.41	OA
BPSD00030321500□00	50	20	2.52 MHz,1 V	1.22	0.33	0.38	TA
BPSD00030321560□00	56	20	2.52 MHz,1 V	1.27	0.31	0.36	UA
BPSD00030321680□00	68	10,20	2.52 MHz,1 V	1.73	0.3	0.35	VA
BPSD00030321750□00	75	20	2.52 MHz,1 V	1.9	0.29	0.33	WA

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  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00030321820□00	82	10,20	2.52 MHz,1 V	1.99	0.28	0.32	XA
BPSD00030321101□00	100	10,20	1 kHz,1 V	2.52	0.25	0.29	KB
BPSD00030321121□00	120	10,20	1 kHz,1 V	2.9	0.2	0.23	QB
BPSD00030321151□00	150	20	1 kHz,1 V	3.36	0.19	0.22	MB
BPSD00030321181□00	180	20	1 kHz,1 V	5.1	0.17	0.20	RB
BPSD00030321221□00	220	10,20	1 kHz,1 V	5.8	0.16	0.18	LB
BPSD00030321271□00	270	10,20	1 kHz,1 V	7.8	0.14	0.16	SB

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Electrical Characteristics

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BPSD00050432R15□00	0.15	30	7.96 MHz,1 V	0.0085	7.5	7.5	R15
BPSD000504321R0□00	1.0	10,20	7.96 MHz,1 V	0.033	3.8	3.8	1R0
BPSD000504321R2□00	1.2	20	7.96 MHz,1 V	0.035	3.5	3.5	1R2
BPSD000504321R4□00	1.4	20	7.96 MHz,1 V	0.038	3.3	3.3	1R4
BPSD000504321R8□00	1.8	10,20	7.96 MHz,1 V	0.042	2.91	2.91	1R8
BPSD000504322R2□00	2.2	10,20	7.96 MHz,1 V	0.047	2.6	2.6	2R2
BPSD000504322R7□00	2.7	20	7.96 MHz,1 V	0.052	2.43	2.43	2R7
BPSD000504323R3□00	3.3	10,20	7.96 MHz,1 V	0.058	2.15	2.15	3R3
BPSD000504323R9□00	3.9	20	7.96 MHz,1 V	0.076	1.98	1.98	3R9
BPSD000504324R7□00	4.7	10,20	7.96 MHz,1 V	0.094	1.7	1.7	4R7
BPSD000504325R6□00	5.6	10,20	7.96 MHz,1 V	0.101	1.6	1.6	5R6
BPSD000504326R2□00	6.2	20	7.96 MHz,1 V	0.11	1.5	1.5	6R2
BPSD000504326R8□00	6.8	10,20	7.96 MHz,1 V	0.117	1.41	1.41	6R8
BPSD000504328R2□00	8.2	10,20	7.96 MHz,1 V	0.132	1.26	1.26	8R2
BPSD00050432100□00	10	10,20	2.52 MHz,1 V	0.182	1.15	1.15	100
BPSD00050432120□00	12	20	2.52 MHz,1 V	0.21	1.05	1.05	120
BPSD00050432150□00	15	10,20	2.52 MHz,1 V	0.235	0.92	0.92	150
BPSD00050432180□00	18	20	2.52 MHz,1 V	0.338	0.84	0.84	180
BPSD00050432220□00	22	10,20	2.52 MHz,1 V	0.378	0.76	0.76	220
BPSD00050432270□00	27	10,20	2.52 MHz,1 V	0.522	0.71	0.71	270
BPSD00050432330□00	33	10,20	2.52 MHz,1 V	0.54	0.64	0.64	330
BPSD00050432390□00	39	10,20	2.52 MHz,1 V	0.587	0.59	0.59	390
BPSD00050432470□00	47	10,20	2.52 MHz,1 V	0.844	0.54	0.54	470
BPSD00050432560□00	56	10,20	2.52 MHz,1 V	0.937	0.5	0.5	560
BPSD00050432680□00	68	10,20	2.52 MHz,1 V	1.117	0.46	0.46	680
BPSD00050432101□00	100	10,20	1kHz,1 V	2	0.4	0.4	101
BPSD00050432121□00	120	10,20	1kHz,1 V	1.8	0.38	0.38	121
BPSD00050432151□00	150	10,20	1kHz,1 V	2.8	0.3	0.3	151
BPSD00050432181□00	180	10,20	1kHz,1 V	3.2	0.25	0.25	181
BPSD0005043221□00	220	10,20	1kHz,1 V	4	0.15	0.15	221
BPSD00050432331□00	330	10,20	1kHz,1 V	5.85	0.21	0.21	331

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  RDC：Chroma 16502

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000605251R0□00	1	20	7.96 MHz,1 V	0.03	4.5	4.5	1R0
BPSD000605251R4□00	1.4	20	7.96 MHz,1 V	0.04	4	4	1R4
BPSD000605251R8□00	1.8	20	7.96 MHz,1 V	0.05	3.3	3.3	1R8
BPSD000605252R2□00	2.2	20	7.96 MHz,1 V	0.06	2.94	2.94	2R2
BPSD000605252R7□00	2.7	20	7.96 MHz,1 V	0.07	2.5	2.5	2R7
BPSD000605253R3□00	3.3	20	7.96 MHz,1 V	0.08	2.35	2.35	3R3
BPSD000605253R9□00	3.9	20	7.96 MHz,1 V	0.09	2.2	2.2	3R9
BPSD000605254R7□00	4.7	10,20	7.96 MHz,1 V	0.14	2	2	4R7
BPSD000605255R6□00	5.6	20	7.96 MHz,1 V	0.15	1.8	1.8	5R6
BPSD000605256R8□00	6.8	20	7.96 MHz,1 V	0.16	1.7	1.7	6R8
BPSD000605258R2□00	8.2	20	7.96 MHz,1 V	0.17	1.4	1.4	8R2
BPSD00060525100□00	10	10,20	2.52 MHz,1 V	0.18	1.2	1.2	100
BPSD00060525120□00	12	20	2.52 MHz,1 V	0.2	1.18	1.18	120
BPSD00060525150□00	15	20	2.52 MHz,1 V	0.22	1.15	1.15	150
BPSD00060525180□00	18	20	2.52 MHz,1 V	0.25	1.1	1.1	180
BPSD00060525220□00	22	10,20	2.52 MHz,1 V	0.35	1	1	220
BPSD00060525270□00	27	20	2.52 MHz,1 V	0.45	0.86	0.86	270
BPSD00060525330□00	33	10,20	2.52 MHz,1 V	0.56	0.76	0.76	330
BPSD00060525390□00	39	10,20	2.52 MHz,1 V	0.69	0.75	0.75	390
BPSD00060525470□00	47	10,20	2.52 MHz,1 V	0.72	0.73	0.73	470
BPSD00060525560□00	56	10,20	2.52 MHz,1 V	0.84	0.55	0.55	560
BPSD00060525680□00	68	10,20	2.52 MHz,1 V	0.9	0.52	0.52	680
BPSD00060525820□00	82	10,20	2.52 MHz,1 V	1.2	0.5	0.5	820
BPSD00060525101□00	100	10,20	1 kHz,1 V	1.3	0.4	0.4	101
BPSD00060525121□00	120	10,20	1 kHz,1 V	1.38	0.36	0.36	121
BPSD00060525151□00	150	10,20	1 kHz,1 V	1.81	0.3	0.3	151
BPSD00060525181□00	180	10,20	1 kHz,1 V	1.95	0.26	0.26	181
BPSD00060525221□00	220	10,20	1 kHz,1 V	3	0.25	0.25	221

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BPSD00060525271□00	270	10,20	1 kHz,1 V	3.2	0.21	0.21	271
BPSD00060525331□00	330	10,20	1 kHz,1 V	3.82	0.18	0.18	331
BPSD00060525391□00	390	10,20	1 kHz,1 V	4.68	0.16	0.16	391
BPSD00060525471□00	470	10,20	1 kHz,1 V	5.1	0.15	0.15	471
BPSD00060525561□00	560	10,20	1 kHz,1 V	8.5	0.14	0.14	561
BPSD00060525681□00	680	10,20	1 kHz,1 V	10	0.13	0.13	681
BPSD00060525821□00	820	10,20	1 kHz,1 V	12	0.07	0.07	821
BPSD00060525102□00	1000	10,20	1 kHz,1 V	18	0.05	0.05	102

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BPSD000605301R0□00	1.0	20	7.96 MHz,1 V	0.03	4.5	4.5	1R0
BPSD000605301R2□00	1.2	20	7.96 MHz,1 V	0.03	4.2	4.2	1R2
BPSD000605301R5□00	1.5	20	7.96 MHz,1 V	0.03	4.1	4.1	1R5
BPSD000605301R8□00	1.8	10,20	7.96 MHz,1 V	0.03	3.7	3.7	1R8
BPSD000605302R0□00	2	20	7.96 MHz,1 V	0.03	3.6	3.6	2R0
BPSD000605302R2□00	2.2	20	7.96 MHz,1 V	0.03	3.5	3.5	2R2
BPSD000605302R7□00	2.7	20	7.96 MHz,1 V	0.04	3.2	3.2	2R7
BPSD000605303R3□00	3.3	10,20	7.96 MHz,1 V	0.05	2.8	2.8	3R3
BPSD000605303R9□00	3.9	20	7.96 MHz,1 V	0.06	2.6	2.6	3R9
BPSD000605304R7□00	4.7	10,20	7.96 MHz,1 V	0.07	2.5	2.5	4R7
BPSD000605305R6□00	5.6	20	7.96 MHz,1 V	0.08	2.4	2.4	5R6
BPSD000605306R8□00	6.8	20	7.96 MHz,1 V	0.09	2.2	2.2	6R8
BPSD000605308R2□00	8.2	20	7.96 MHz,1 V	0.1	2	2	8R2
BPSD00060530100□00	10	10,20	2.52 MHz,1 V	0.12	1.8	1.8	100
BPSD00060530120□00	12	10,20	2.52 MHz,1 V	0.13	1.75	1.75	120
BPSD00060530150□00	15	10,20	2.52 MHz,1 V	0.15	1.7	1.7	150
BPSD00060530180□00	18	10,20	2.52 MHz,1 V	0.22	1.6	1.6	180
BPSD00060530220□00	22	10,20	2.52 MHz,1 V	0.22	1.5	1.5	220
BPSD00060530270□00	27	20	2.52 MHz,1 V	0.26	1.4	1.4	270
BPSD00060530330□00	33	10,20	2.52 MHz,1 V	0.33	1.1	1.1	330
BPSD00060530390□00	39	10,20	2.52 MHz,1 V	0.42	1	1	390
BPSD00060530470□00	47	10,20	2.52 MHz,1 V	0.5	0.9	0.9	470
BPSD00060530560□00	56	10,20	2.52 MHz,1 V	0.55	0.85	0.85	560
BPSD00060530680□00	68	10,20	2.52 MHz,1 V	0.65	0.8	0.8	680
BPSD00060530820□00	82	10,20	2.52 MHz,1 V	0.8	0.65	0.65	820
BPSD00060530101□00	100	10,20	1 kHz,1 V	0.9	0.6	0.6	101
BPSD00060530121□00	120	10,20	1 kHz,1 V	1	0.58	0.58	121
BPSD00060530151□00	150	10,20	1 kHz,1 V	1.3	0.43	0.43	151

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00060530181□00	180	10,20	1 kHz,1 V	1.5	0.41	0.41	181
BPSD00060530221□00	220	10,20	1 kHz,1 V	2	0.38	0.38	221
BPSD00060530271□00	270	10,20	1 kHz,1 V	2.5	0.35	0.35	271
BPSD00060530331□00	330	10,20	1 kHz,1 V	3.2	0.28	0.28	331
BPSD00060530391□00	390	10,20	1 kHz,1 V	3.5	0.26	0.26	391
BPSD00060530471□00	470	10,20	1 kHz,1 V	4.2	0.2	0.2	471
BPSD00060530561□00	560	10,20	1 kHz,1 V	4.5	0.19	0.19	561
BPSD00060530681□00	680	10,20	1 kHz,1 V	6.5	0.18	0.18	681
BPSD00060530821□00	820	10,20	1 kHz,1 V	7.5	0.15	0.15	821
BPSD00060530102□00	1000	10,20	1 kHz,1 V	8	0.13	0.13	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Isat for Inductance drop 10% from its value without current
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- Measure Equipment：
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  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000605451R8□00	1.8	20	7.96 MHz,1 V	0.02	3.5	3.5	1R8
BPSD000605452R2□00	2.2	20	7.96 MHz,1 V	0.023	3.2	3.2	2R2
BPSD000605453R3□00	3.3	10,20	7.96 MHz,1 V	0.0314	2.59	2.59	3R3
BPSD000605453R5□00	3.5	20	7.96 MHz,1 V	0.03	2.4	2.4	3R5
BPSD000605454R7□00	4.7	10,20	7.96 MHz,1 V	0.0372	2.3	2.3	4R7
BPSD000605456R8□00	6.8	20	7.96 MHz,1 V	0.057	1.8	1.8	6R8
BPSD000605458R2□00	8.2	20	7.96 MHz,1 V	0.0594	1.7	1.7	8R2
BPSD00060545100□00	10	10,20	2.52 MHz,1 V	0.1	1.44	1.44	100
BPSD00060545120□00	12	20	2.52 MHz,1 V	0.12	1.4	1.4	120
BPSD00060545150□00	15	10,20	2.52 MHz,1 V	0.14	1.3	1.3	150
BPSD00060545180□00	18	20	2.52 MHz,1 V	0.15	1.23	1.23	180
BPSD00060545220□00	22	20	2.52 MHz,1 V	0.18	1.11	1.11	220
BPSD00060545270□00	27	20	2.52 MHz,1 V	0.2	0.97	0.97	270
BPSD00060545330□00	33	10,20	2.52 MHz,1 V	0.23	0.88	0.88	330
BPSD00060545390□00	39	10,20	2.52 MHz,1 V	0.32	0.8	0.8	390
BPSD00060545470□00	47	10,20	2.52 MHz,1 V	0.37	0.72	0.72	470
BPSD00060545560□00	56	10,20	2.52 MHz,1 V	0.42	0.68	0.68	560
BPSD00060545680□00	68	10,20	2.52 MHz,1 V	0.46	0.61	0.61	680
BPSD00060545820□00	82	10,20	2.52 MHz,1 V	0.6	0.58	0.58	820
BPSD00060545101□00	100	10,20	1 kHz,1 V	0.7	0.52	0.52	101
BPSD00060545121□00	120	10,20	1 kHz,1 V	0.93	0.48	0.48	121
BPSD00060545151□00	150	10,20	1 kHz,1 V	1.1	0.4	0.4	151
BPSD00060545181□00	180	10,20	1 kHz,1 V	1.38	0.38	0.38	181
BPSD00060545221□00	220	10,20	1 kHz,1 V	1.57	0.35	0.35	221
BPSD00060545271□00	270	10,20	1 kHz,1 V	1.85	0.29	0.29	271
BPSD00060545331□00	330	10,20	1 kHz,1 V	2	0.28	0.28	331
BPSD00060545391□00	390	10,20	1 kHz,1 V	2.6	0.26	0.26	391
BPSD00060545471□00	470	10,20	1 kHz,1 V	3	0.12	0.12	471

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00060545561□00	560	10,20	1 kHz,1 V	4.19	0.1	0.1	561
BPSD00060545681□00	680	10,20	1 kHz,1 V	4.44	0.08	0.08	681
BPSD00060545821□00	820	10,20	1 kHz,1 V	5.12	0.05	0.05	821
BPSD00060545102□00	1000	10,20	1 kHz,1 V	10	0.03	0.03	102
BPSD00060545152□00	1500	10,20	1 kHz,1V	11	0.03	0.03	152
BPSD00060545182□00	1800	10,20	1 kHz,1V	12.3	0.03	0.03	182
BPSD00060545202□00	2000	10,20	1 kHz,1V	12.6	0.03	0.03	202
BPSD00060545222□00	2200	10,20	1 kHz,1V	12.9	0.03	0.03	222

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

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  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000807352R2□00	2.2	20	7.96 MHz,1 V	0.03	3.2	3.2	2R2
BPSD000807354R7□00	4.7	20	2.52 MHz,1 V	0.04	1.6	1.6	4R7
BPSD00080735100□00	10	20	2.52 MHz,1 V	0.08	1.44	1.44	100
BPSD00080735120□00	12	10,20	2.52 MHz,1 V	0.09	1.39	1.39	120
BPSD00080735150□00	15	10,20	2.52 MHz,1 V	0.1	1.24	1.24	150
BPSD00080735180□00	18	20	2.52 MHz,1 V	0.11	1.12	1.12	180
BPSD00080735220□00	22	20	2.52 MHz,1 V	0.13	1.07	1.07	220
BPSD00080735270□00	27	20	2.52 MHz,1 V	0.15	0.94	0.94	270
BPSD00080735330□00	33	10,20	2.52 MHz,1 V	0.17	0.85	0.85	330
BPSD00080735390□00	39	10,20	2.52 MHz,1 V	0.22	0.74	0.74	390
BPSD00080735470□00	47	10,20	2.52 MHz,1 V	0.25	0.68	0.68	470
BPSD00080735560□00	56	10,20	2.52 MHz,1 V	0.28	0.64	0.64	560
BPSD00080735680□00	68	10,20	2.52 MHz,1 V	0.33	0.59	0.59	680
BPSD00080735820□00	82	10,20	2.52 MHz,1 V	0.41	0.54	0.54	820
BPSD00080735101□00	100	10,20	1 kHz,1 V	0.48	0.51	0.51	101
BPSD00080735121□00	120	10,20	1 kHz,1 V	0.54	0.49	0.49	121
BPSD00080735151□00	150	10,20	1 kHz,1 V	0.75	0.4	0.4	151
BPSD00080735181□00	180	10,20	1 kHz,1 V	1.02	0.36	0.36	181
BPSD00080735221□00	220	10,20	1 kHz,1 V	1.2	0.31	0.31	221
BPSD00080735271□00	270	10,20	1 kHz,1 V	1.31	0.29	0.29	271
BPSD00080735331□00	330	10,20	1 kHz,1 V	1.5	0.28	0.28	331
BPSD00080735561□00	560	10,20	1 kHz,1 V	2.5	0.14	0.14	561

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

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- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

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  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD000807501R4□00	1.4	20	7.96 MHz,1 V	0.02	3.7	3.7	1R4
BPSD000807501R5□00	1.5	20	7.96 MHz,1 V	0.02	3.7	3.7	1R5
BPSD000807501R8□00	1.8	20	7.96 MHz,1 V	0.02	3.7	3.7	1R8
BPSD000807502R2□00	2.2	20	7.96 MHz,1 V	0.02	3.7	3.7	2R2
BPSD000807502R7□00	2.7	20	7.96 MHz,1 V	0.02	3.7	3.7	2R7
BPSD000807503R0□00	3	20	7.96 MHz,1 V	0.025	3.7	3.7	3R0
BPSD000807503R3□00	3.3	20	7.96 MHz,1 V	0.03	3.7	3.7	3R3
BPSD000807503R6□00	3.6	20	7.96 MHz,1 V	0.03	3.7	3.7	3R6
BPSD000807503R9□00	3.9	20	7.96 MHz,1 V	0.03	3.7	3.7	3R9
BPSD000807504R7□00	4.7	10,20	7.96 MHz,1 V	0.04	3.5	3.5	4R7
BPSD000807505R6□00	5.6	20	7.96 MHz,1 V	0.04	3.3	3.3	5R6
BPSD000807506R8□00	6.8	20	7.96 MHz,1 V	0.04	3.1	3.1	6R8
BPSD000807508R2□00	8.2	20	7.96 MHz,1 V	0.05	2.7	2.7	8R2
BPSD00080750100□00	10	10,20	2.52 MHz,1 V	0.07	2.3	2.3	100
BPSD00080750120□00	12	20	2.52 MHz,1 V	0.08	2	2	120
BPSD00080750150□00	15	10,20	2.52 MHz,1 V	0.09	1.8	1.8	150
BPSD00080750180□00	18	20	2.52 MHz,1 V	0.1	1.6	1.6	180
BPSD00080750220□00	22	10,20	2.52 MHz,1 V	0.11	1.5	1.5	220
BPSD00080750270□00	27	20	2.52 MHz,1 V	0.12	1.3	1.3	270
BPSD00080750330□00	33	10,20	2.52 MHz,1 V	0.13	1.2	1.2	330
BPSD00080750390□00	39	10,20	2.52 MHz,1 V	0.16	1.1	1.1	390
BPSD00080750470□00	47	10,20	2.52 MHz,1 V	0.18	1.1	1.1	470
BPSD00080750560□00	56	10,20	2.52 MHz,1 V	0.24	0.94	0.94	560
BPSD00080750680□00	68	10,20	2.52 MHz,1 V	0.28	0.85	0.85	680
BPSD00080750820□00	82	10,20	2.52 MHz,1 V	0.37	0.78	0.78	820
BPSD00080750101□00	100	10,20	1 kHz,1 V	0.43	0.72	0.72	101
BPSD00080750121□00	120	10,20	1 kHz,1 V	0.47	0.66	0.66	121
BPSD00080750151□00	150	10,20	1 kHz,1 V	0.64	0.58	0.58	151

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
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- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00080750181□00	180	10,20	1 kHz,1 V	0.71	0.51	0.51	181
BPSD00080750221□00	220	10,20	1 kHz,1 V	0.96	0.49	0.49	221
BPSD00080750271□00	270	10,20	1 kHz,1 V	1.11	0.42	0.42	271
BPSD00080750331□00	330	10,20	1 kHz,1 V	1.26	0.4	0.4	331
BPSD00080750391□00	390	10,20	1 kHz,1 V	1.77	0.36	0.36	391
BPSD00080750471□00	470	10,20	1 kHz,1 V	1.96	0.34	0.34	471
BPSD00080750561□00	560	10,20	1 kHz,1 V	2.41	0.32	0.32	561
BPSD00080750681□00	680	10,20	1 kHz,1 V	2.5	0.29	0.29	681
BPSD00080750102□00	1000	10,20	1 kHz,1 V	2.8	0.19	0.19	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD001009403R3□00	3.3	20	7.96 MHz,1 V	0.022	4.5	4.5	3R3
BPSD001009403R8□00	3.8	20	7.96 MHz,1 V	0.022	4.2	4.2	3R8
BPSD001009406R8□00	6.8	20	7.96 MHz,1 V	0.04	3	3	6R8
BPSD00100940100□00	10	20	2.52 MHz,1 V	0.05	2.38	2.38	100
BPSD00100940120□00	12	20	2.52 MHz,1 V	0.06	2.13	2.13	120
BPSD00100940150□00	15	10,20	2.52 MHz,1 V	0.07	1.87	1.87	150
BPSD00100940180□00	18	20	2.52 MHz,1 V	0.08	1.73	1.73	180
BPSD00100940220□00	22	10,20	2.52 MHz,1 V	0.09	1.6	1.6	220
BPSD00100940270□00	27	20	2.52 MHz,1 V	0.1	1.44	1.44	270
BPSD00100940330□00	33	10,20	2.52 MHz,1 V	0.12	1.26	1.26	330
BPSD00100940390□00	39	10,20	2.52 MHz,1 V	0.15	1.2	1.2	390
BPSD00100940470□00	47	10,20	2.52 MHz,1 V	0.17	1.1	1.1	470
BPSD00100940560□00	56	10,20	2.52 MHz,1 V	0.2	1.01	1.01	560
BPSD00100940680□00	68	10,20	2.52 MHz,1 V	0.22	0.91	0.91	680
BPSD00100940820□00	82	10,20	2.52 MHz,1 V	0.3	0.85	0.85	820
BPSD00100940101□00	100	10,20	1 kHz,1 V	0.34	0.74	0.74	101
BPSD00100940121□00	120	10,20	1 kHz,1 V	0.4	0.69	0.69	121
BPSD00100940151□00	150	10,20	1 kHz,1 V	0.54	0.61	0.61	151
BPSD00100940181□00	180	10,20	1 kHz,1 V	0.62	0.56	0.56	181
BPSD00100940221□00	220	10,20	1 kHz,1 V	0.72	0.53	0.53	221
BPSD00100940271□00	270	10,20	1 kHz,1 V	0.95	0.45	0.45	271
BPSD00100940331□00	330	10,20	1 kHz,1 V	1.1	0.42	0.42	331
BPSD00100940391□00	390	10,20	1 kHz,1 V	1.24	0.38	0.38	391
BPSD00100940471□00	470	10,20	1 kHz,1 V	1.53	0.35	0.35	471
BPSD00100940561□00	560	10,20	1 kHz,1 V	1.9	0.32	0.32	561

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD001009543R3□00	3.3	20	7.96 MHz,1 V	0.038	2.8	2.8	3R3
BPSD001009544R7□00	4.7	20	7.96 MHz,1 V	0.04	2.6	2.6	4R7
BPSD001009545R6□00	5.6	20	7.96 MHz,1 V	0.037	4.5	4.5	5R6
BPSD001009546R8□00	6.8	20	7.96 MHz,1 V	0.037	4.33	4.33	6R8
BPSD001009548R2□00	8.2	20	7.96 MHz,1 V	0.05	3.5	3.5	8R2
BPSD00100954100□00	10	10,20	2.52 MHz,1 V	0.06	2.6	2.6	100
BPSD00100954120□00	12	20	2.52 MHz,1 V	0.07	2.45	2.45	120
BPSD00100954150□00	15	10,20	2.52 MHz,1 V	0.08	2.27	2.27	150
BPSD00100954180□00	18	20	2.52 MHz,1 V	0.09	2.15	2.15	180
BPSD00100954220□00	22	10,20	2.52 MHz,1 V	0.1	1.95	1.95	220
BPSD00100954270□00	27	10,20	2.52 MHz,1 V	0.11	1.76	1.76	270
BPSD00100954330□00	33	10,20	2.52 MHz,1 V	0.12	1.5	1.5	330
BPSD00100954390□00	39	10,20	2.52 MHz,1 V	0.14	1.37	1.37	390
BPSD00100954470□00	47	10,20	2.52 MHz,1 V	0.17	1.28	1.28	470
BPSD00100954560□00	56	10,20	2.52 MHz,1 V	0.19	1.17	1.17	560
BPSD00100954680□00	68	10,20	2.52 MHz,1 V	0.22	1.11	1.11	680
BPSD00100954820□00	82	10,20	2.52 MHz,1 V	0.25	1	1	820
BPSD00100954101□00	100	10,20	1 kHz,1 V	0.35	0.97	0.97	101
BPSD00100954121□00	120	10,20	1 kHz,1 V	0.4	0.89	0.89	121
BPSD00100954151□00	150	10,20	1 kHz,1 V	0.47	0.78	0.78	151
BPSD00100954181□00	180	10,20	1 kHz,1 V	0.63	0.72	0.72	181
BPSD00100954221□00	220	10,20	1 kHz,1 V	0.73	0.66	0.66	221
BPSD00100954271□00	270	10,20	1 kHz,1 V	0.97	0.57	0.57	271
BPSD00100954331□00	330	10,20	1 kHz,1 V	1.15	0.52	0.52	331
BPSD00100954391□00	390	10,20	1 kHz,1 V	1.3	0.48	0.48	391
BPSD00100954471□00	470	10,20	1 kHz,1 V	1.48	0.42	0.42	471
BPSD00100954561□00	560	10,20	1 kHz,1 V	1.9	0.33	0.33	561
BPSD00100954681□00	680	10,20	1 kHz,1 V	2.25	0.28	0.28	681
BPSD00100954821□00	820	10,20	1 kHz,1 V	2.55	0.24	0.24	821
BPSD00100954102□00	1000	10,20	1 kHz,1 V	3.1	0.2	0.2	102

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：
  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
  RDC：Chroma 16502
  Isat：HP4284+42841A or WK3260B+WK3265B
  Irms: WK3255BQ+ WK3265B (or equivalent)

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency	RDC (Ω)Max	Isat (A)	Irms (A)	Marking
BPSD00100965220□00	22	10,20	2.52 MHz,1 V	0.08	3.8	3.8	220
BPSD00100965471□00	470	10,20	1 kHz,1 V	1.421	0.82	0.82	471
BPSD00100965102□00	1000	10,20	1 kHz,1 V	2.9	0.6	0.6	102
BPSD00100965122□00	1200	10,20	1 kHz,1 V	3.5	0.5	0.5	122
BPSD00100965152□00	1500	10,20	1 kHz,1 V	3.8	0.6	0.6	152
BPSD00100965202□00	2000	10,20	1 kHz,1 V	6.6	0.4	0.4	202
BPSD00100965222□00	2200	10,20	1 kHz,1 V	6	0.4	0.4	222
BPSD00100965602□00	6000	10,20	1 kHz,1 V	14	0.27	0.27	602
BPSD00100965822□00	8200	10,20	1 kHz,1 V	50	0.2	0.2	822

Note: When ordering, please specify tolerance code. Tolerance: K=±10% , M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient.
- Measure Equipment：

  L：Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)

  RDC：Chroma 16502

  Isat：HP4284+42841A or WK3260B+WK3265B

  Irms: WK3255BQ+ WK3265B (or equivalent)

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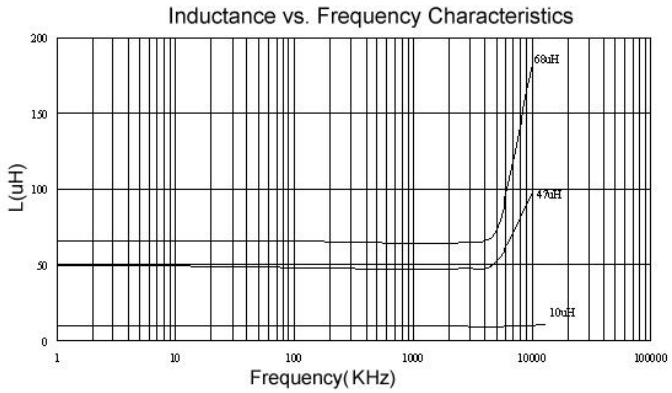
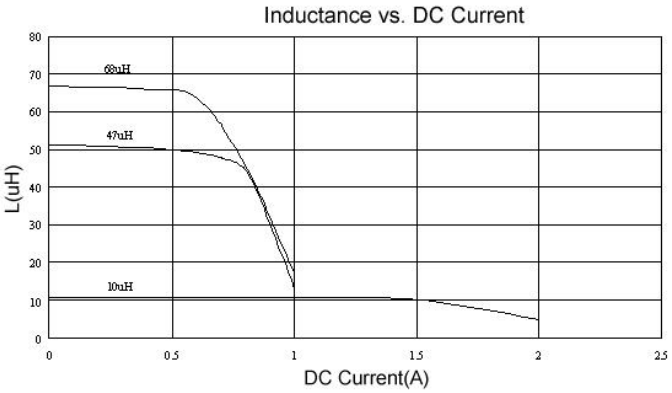
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

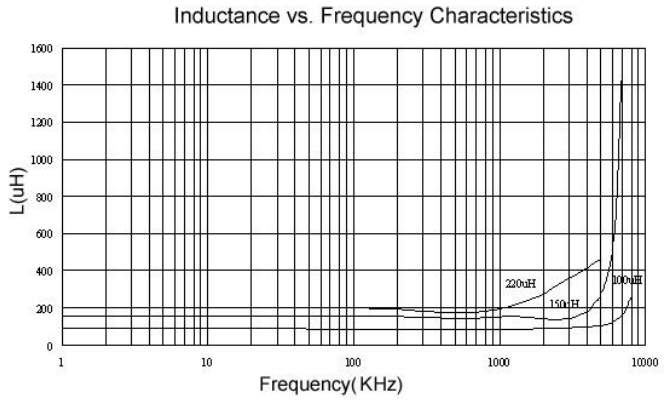
Test Instruments：HP4294A Impedance / Material Analyzer

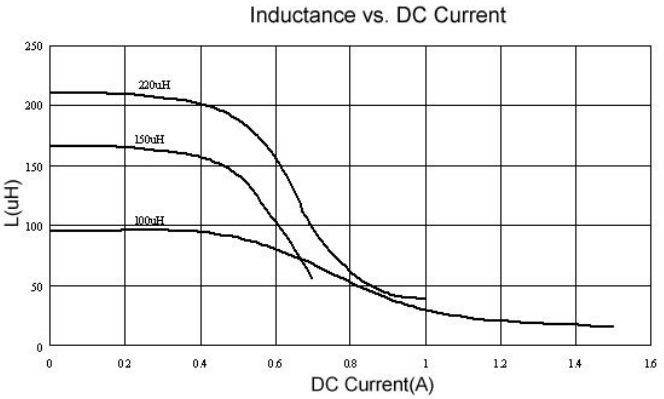
BPSD00050432



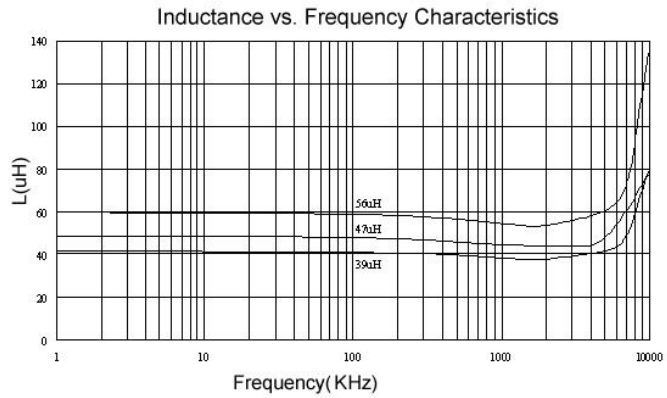


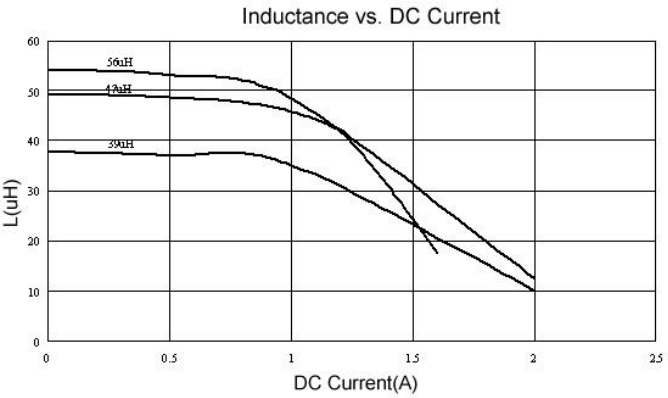
BPSD00060545





BPSD00080735





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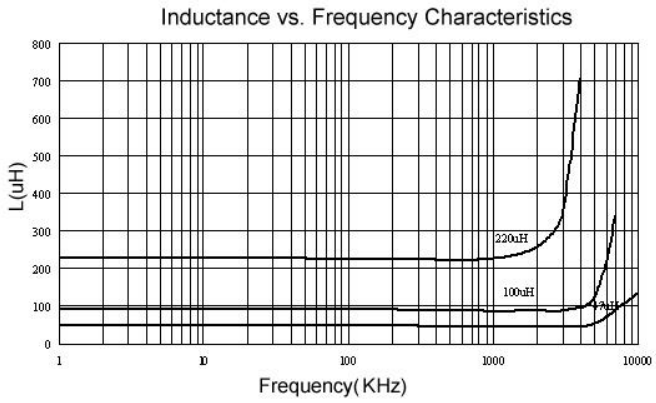
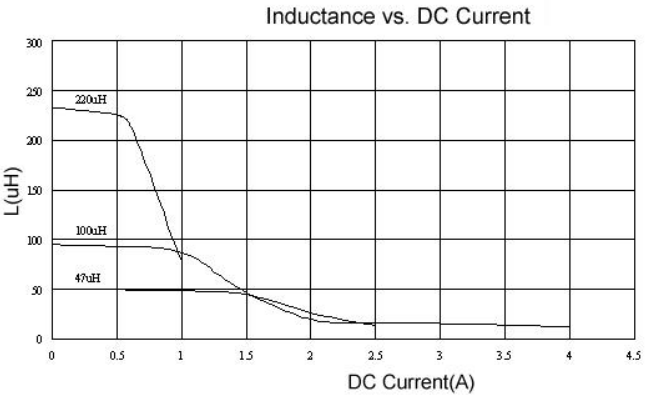
CHILISIN ELECTRONICS CORP.

Test Instruments：HP4294A Impedance / Material Analyzer

BPSD00080750





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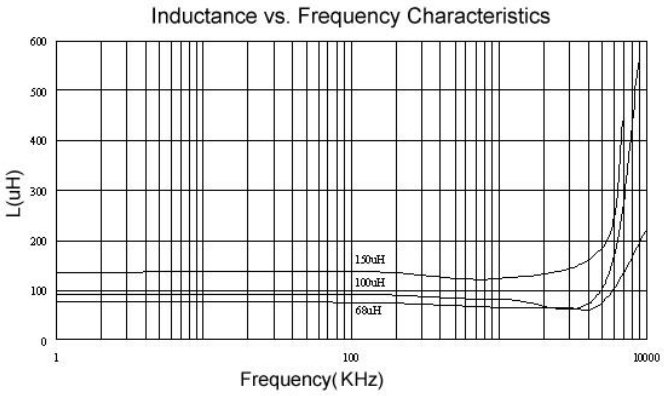

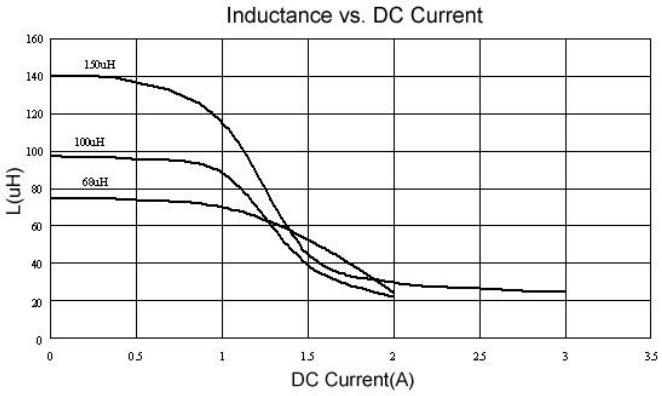

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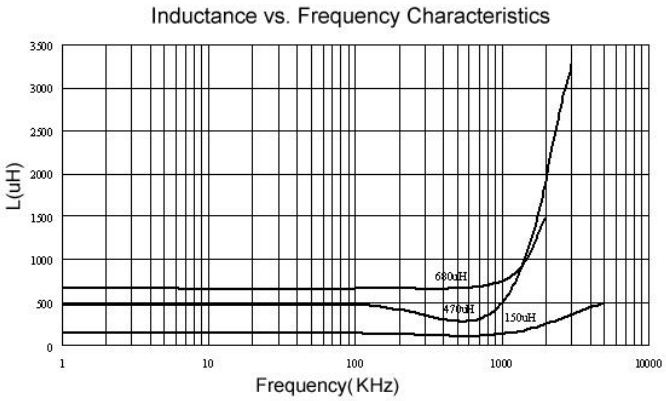

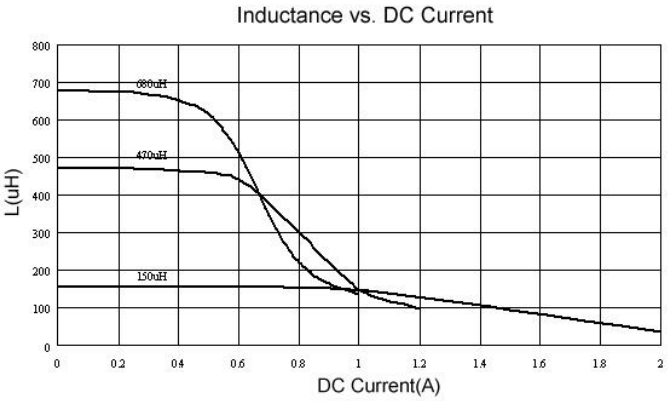

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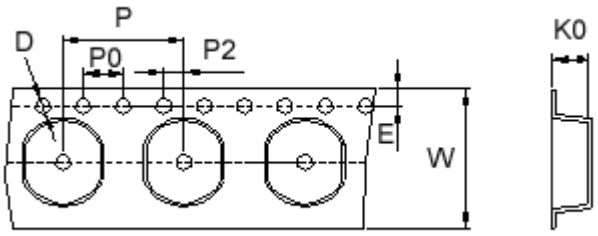
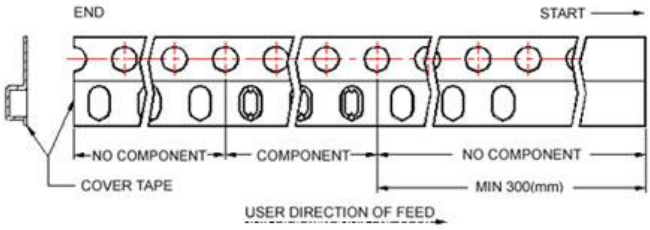
CHILISIN ELECTRONICS CORP.

Packaging Specifications

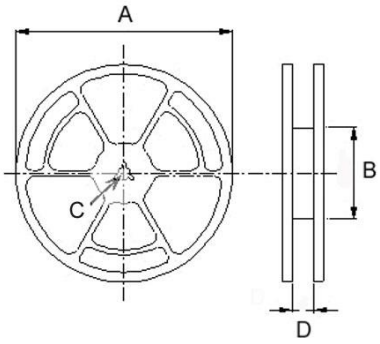
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
BPSD00030315	1.80	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
BPSD00030321	2.50	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
BPSD00050432	3.55	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
BPSD00060525	3.30	1.50	1.75	16	8	4	2	330	100	13	16.0	2000
BPSD00060530	3.30	1.50	1.75	16	8	4	2	330	100	13	16.0	2000
BPSD00060545	4.8	1.55	1.75	16	8	4	2	330	100	13	16.0	1500
BPSD00080735	3.8	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSD00080750	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	700
BPSD00100940	4.5	1.55	1.75	24	12	4	2	330	100	13	24.4	700
BPSD00100954	5.8	1.55	1.75	24	12	4	2	330	100	13	24.4	700
BPSD00100965	7.0	1.55	1.75	24	12	4	2	330	100	13	24.4	500

BPSL Series

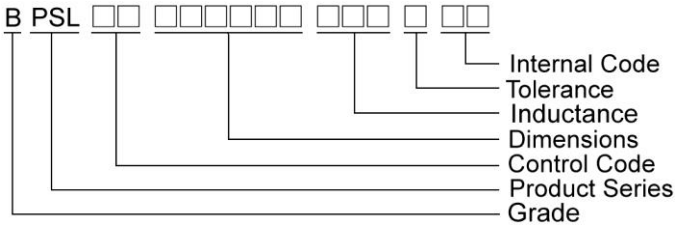
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range. SSL-HC family is designed for low resistance and high current purpose

Applications

- DC/DC converters

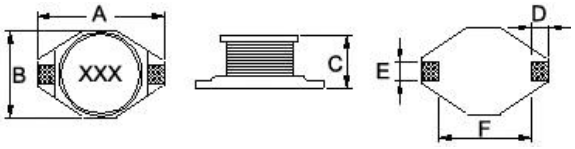
Product Identification

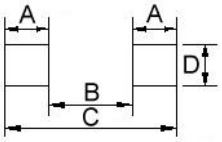


Shape and Dimensions

Recommended Pattern

BPSL00130952/130911

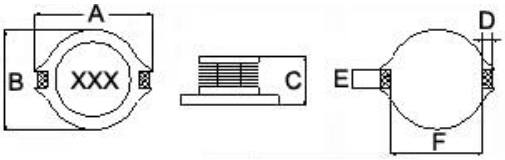


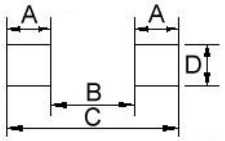


Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSL00130952	12.95^{+0}	9.40^{+0}	5.21^{+0}	2.54	2.54	7.62	2.92	7.37	13.21	2.79
BPSL00130911	12.95^{+0}	9.40^{+0}	11.43^{+0}	2.54	2.54	7.62	2.92	7.37	13.21	2.79

BPSL00191571





Dimensions in mm

TYPE	Shape and Dimensions						Recommended Pattern			
	A	B	C	D	E	F	A	B	C	D
BPSL00191571	18.54^{+0}	15.24^{+0}	7.11^{+0}	2.54	2.54	12.7	2.92	12.45	18.29	2.79

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL001309521R0M00	1.0	20	100	100	0.009	9.0	6.8
BPSL001309521R5M00	1.5	20	100	90	0.010	8.0	6.4
BPSL001309522R2M00	2.2	20	100	80	0.012	7.0	6.1
BPSL001309523R3M00	3.3	20	100	65	0.015	6.4	5.4
BPSL001309524R7M00	4.7	20	100	45	0.018	5.4	4.8
BPSL001309526R8M00	6.8	20	100	38	0.027	4.6	4.4
BPSL00130952100M00	10	20	100	30	0.038	3.8	3.9
BPSL00130952120M00	12	20	100	27	0.0432	3.5	3.6
BPSL00130952150M00	15	20	100	27	0.046	3.0	3.1
BPSL00130952220M00	22	20	100	19	0.085	2.6	2.7
BPSL00130952330M00	33	20	100	15	0.100	2.0	2.1
BPSL00130952470M00	47	20	100	12	0.140	1.6	1.8
BPSL00130952680M00	68	20	100	10	0.200	1.4	1.5
BPSL00130952101M00	100	20	100	9	0.260	1.2	1.3
BPSL00130952151M00	150	20	100	6	0.400	1.0	1.0
BPSL00130952221M00	220	20	100	5	0.610	0.8	0.8
BPSL00130952331M00	330	20	100	4.5	1.020	0.6	0.6
BPSL00130952471M00	470	20	100	3.5	1.270	0.5	0.5
BPSL00130952681M00	680	20	100	2.5	2.020	0.4	0.4
BPSL00130952102M00	1000	20	100	2.0	3.000	0.3	0.3
BPSL00130952152M00	1500	20	100	1.4	4.500	0.25	0.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 15℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

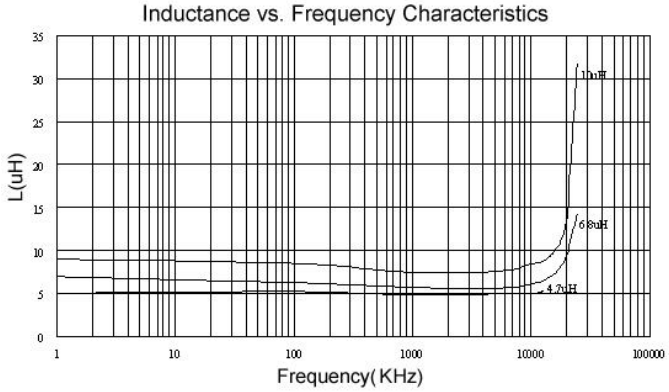
  L：E4980 or HP4284A , 100kHz 0.1V

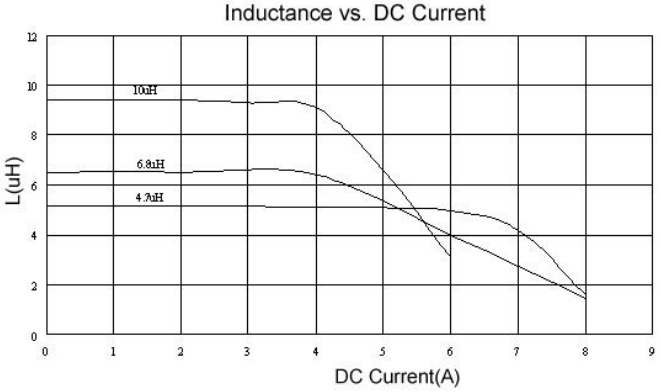
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL001309113R3M00	3.3	20	100	30	0.025	10	4.0
BPSL001309114R7M00	4.7	20	100	25	0.033	8.0	3.5
BPSL00130911100M00	10	20	100	22	0.033	8.0	3.5
BPSL00130911150M00	15	20	100	18	0.042	7.0	3.0
BPSL00130911220M00	22	20	100	11	0.054	5.5	2.5
BPSL00130911330M00	33	20	100	9	0.08	4.0	2.0
BPSL00130911470M00	47	20	100	8	0.10	3.8	1.6
BPSL00130911680M00	68	20	100	7	0.17	3.0	1.2
BPSL00130911101M00	100	20	100	5	0.22	2.5	1.2
BPSL00130911151M00	150	20	100	4	0.34	2.0	0.9
BPSL00130911221M00	220	20	100	3.5	0.44	1.6	0.7
BPSL00130911271M00	270	20	100	2.5	0.60	1.4	0.6
BPSL00130911331M00	330	20	100	2.5	0.70	1.2	0.6
BPSL00130911471M00	470	20	100	2	0.95	1.0	0.3
BPSL00130911681M00	680	20	100	2	1.2	1.0	0.2
BPSL00130911102M00	1000	20	100	1.5	2.0	0.8	0.1

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

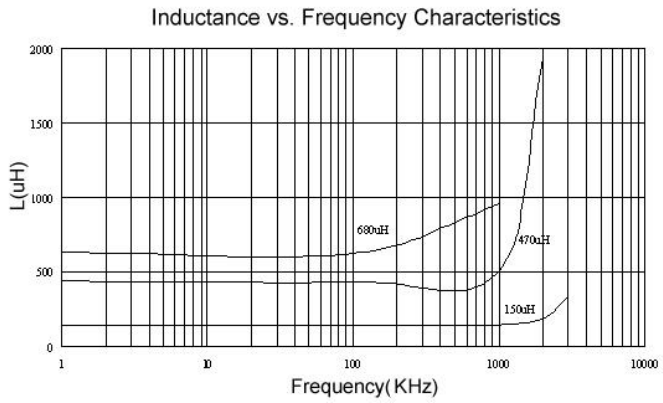
  L：E4980 or HP4284A , 100kHz 0.1V

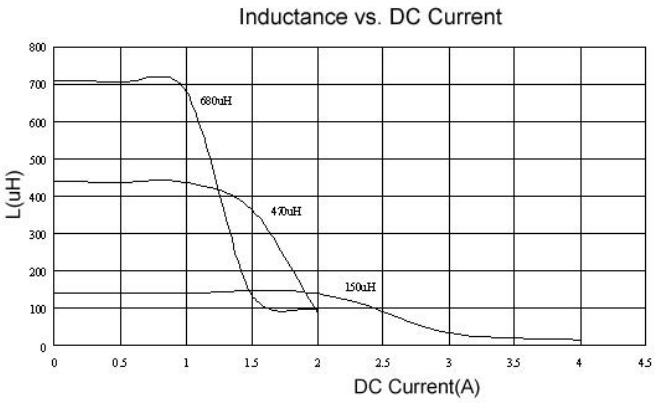
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω+15%)	Isat (A)	Irms (A)
BPSL001915711R0M00	1.0	20	100	80	0.011	20	8.6
BPSL001915712R2M00	2.2	20	100	80	0.014	16	7.1
BPSL001915713R3M00	3.3	20	100	60	0.016	14	6.2
BPSL001915714R7M00	4.7	20	100	45	0.022	13	5.5
BPSL001915715R6M00	5.6	20	100	40	0.022	12	5.3
BPSL001915716R8M00	6.8	20	100	30	0.022	10	5.0
BPSL00191571100M00	10	20	100	30	0.032	10	4.3
BPSL00191571150M00	15	20	100	22	0.036	8.0	4.0
BPSL00191571180M00	18	20	100	20	0.039	7.5	3.7
BPSL00191571220M00	22	20	100	20	0.047	7.0	3.5
BPSL00191571330M00	33	20	100	15	0.066	5.5	3.0
BPSL00191571470M00	47	20	100	9	0.087	4.5	2.6
BPSL00191571680M00	68	20	100	8	0.13	3.5	2.3
BPSL00191571101M00	100	20	100	7	0.19	3.0	1.8
BPSL00191571151M00	150	20	100	6	0.25	2.6	1.5
BPSL00191571221M00	220	20	100	5	0.38	2.4	1.2
BPSL00191571331M00	330	20	100	4	0.56	1.9	1.0
BPSL00191571471M00	470	20	100	3	0.85	1.4	0.82
BPSL00191571681M00	680	20	100	2.5	1.2	1.2	0.72
BPSL00191571102M00	1000	20	100	2	1.8	1.0	0.56

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

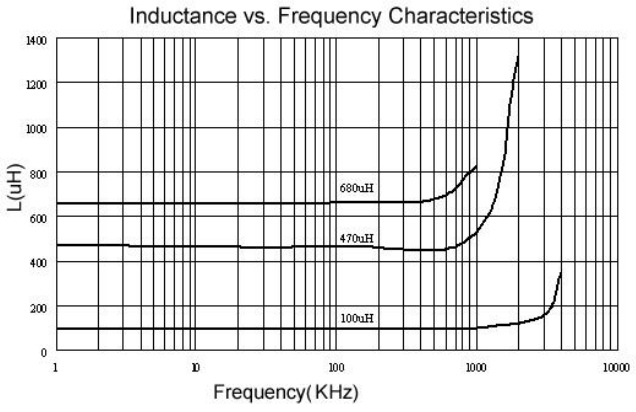
  L：E4980 or HP4284A , 100kHz 0.1V

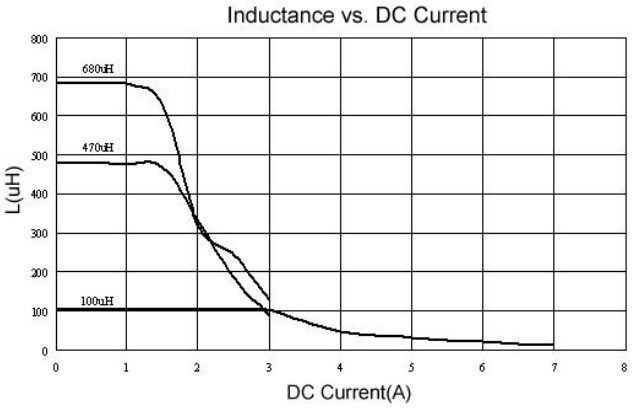
  SRF:HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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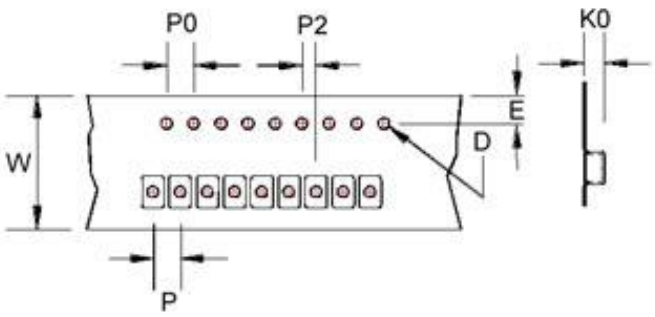
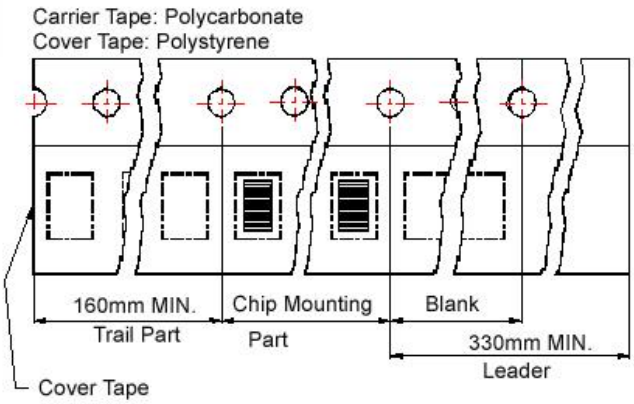
Packaging Specifications

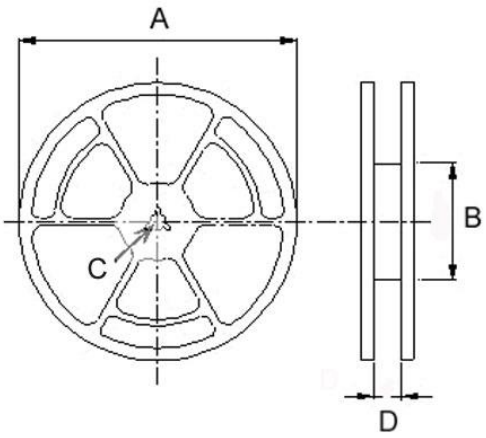
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	(PCS / REEL)
BPSL00130952	5.4	1.55	1.75	24	16	4	2	330	100	13	24.4	750
BPSL00130911	11.2	1.55	1.75	24	20	4	2	330	100	13	24.4	225
BPSL00191571	7.5	1.55	1.75	32	20	4	2	330	100	13	33.4	350

BPSL-BN Series

This series is specially designed for high current, low voltage DC-DC converter applications. Its simple, rugged design provides current ratings normally available in larger packages. With tinned self-leaded construction, BPSL-BN series can achieve very low DCR values and excellent solderability. In addition, they have very low resistance. Standard parts shown in catalogue and custom values are also available.

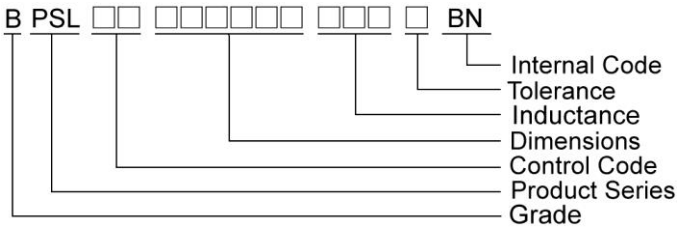
Features

- RoHS, Halogen Free and REACH Compliance
- Unshielded power inductor
- Various package size and wide inductance range. SSL-HC family is designed for low resistance and high current purpose

Applications

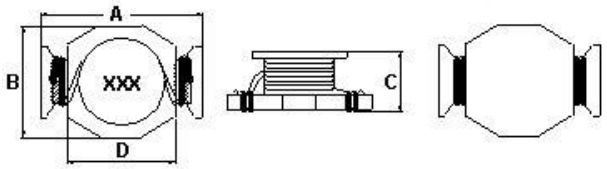
- DC/DC converters

Product Identification



Shape and Dimension

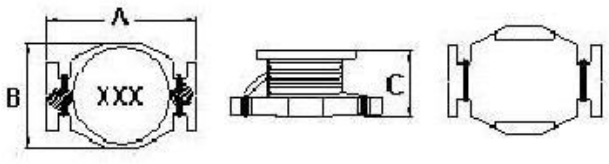
BPSL00090650



Dimension in mm

A	B	C	D
8.89^{+0}	6.10^{+0}	5.00^{+0}	5.84

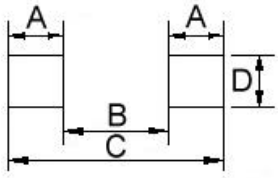
BPSL00131064



Dimension in mm

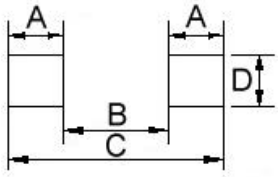
A	B	C
13.21^{+0}	9.91^{+0}	6.35^{+0}

Recommended Pattern



Dimension in mm

A	B	C	D
1.91	4.06	8.89	5.08



Dimension in mm

A	B	C	D
1.52	8.64	11.68	4.06

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL00090650R33TBN	0.33	30	100	330	0.007	8.2	7.0
BPSL00090650R56MBN	0.56	20	100	200	0.010	7.7	6.0
BPSL000906501R0MBN	1.0	20	100	140	0.017	5.3	4.4
BPSL000906501R2MBN	1.2	20	100	140	0.017	5.3	4.4
BPSL000906501R6MBN	1.6	20	100	100	0.022	4.5	4.0
BPSL000906502R2MBN	2.2	20	100	100	0.035	3.5	3.1
BPSL000906504R7MBN	4.7	20	100	50	0.054	2.6	2.2
BPSL000906506R8MBN	6.8	20	100	45	0.070	2.0	1.8
BPSL00090650100MBN	10	20	100	40	0.111	1.9	1.5
BPSL00090650150MBN	15	20	100	30	0.17	1.5	1.2
BPSL00090650220MBN	22	20	100	25	0.25	1.2	1.0
BPSL00090650270MBN	27	20	100	20	0.32	1.0	0.85
BPSL00090650330MBN	33	20	100	20	0.37	0.99	0.82
BPSL00090650470MBN	47	20	100	15	0.47	0.87	0.72

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T=±30%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

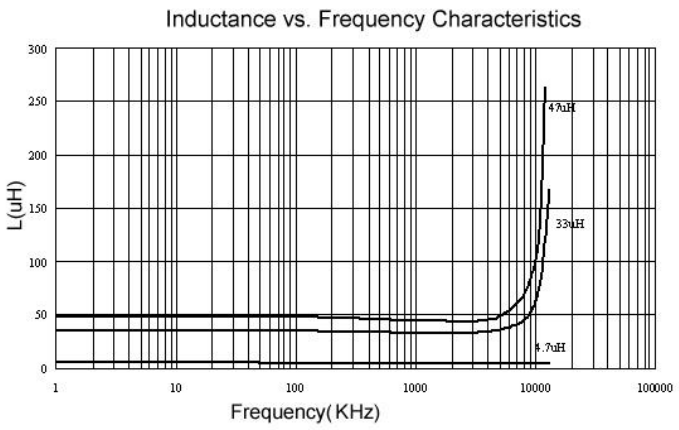
  L：E4980 or HP4284A , 100kHz 0.25V

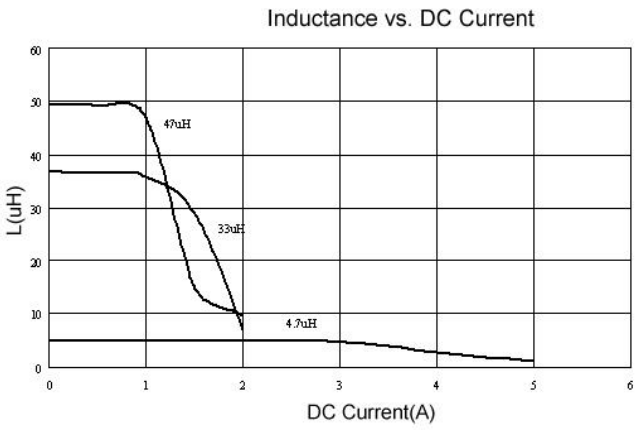
  SRF：HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B

Test Instruments：





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Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Inductance (μH)	Tolerance (±%)	Test Frequency (kHz)	SRF (MHz) Typ.	RDC (Ω) Max	Isat (A)	Irms (A)
BPSL00131064R33MBN	0.33	20	100	300	0.002	20.0	16.0
BPSL00131064R68MBN	0.68	20	100	200	0.005	13.0	12.0
BPSL001310641R0MBN	1.0	20	100	100	0.006	11.0	10.0
BPSL001310641R5MBN	1.5	20	100	90	0.008	9.0	9.0
BPSL001310642R2MBN	2.2	20	100	90	0.011	7.8	7.4
BPSL001310642R7MBN	2.7	20	100	65	0.012	7.0	6.6
BPSL001310643R3MBN	3.3	20	100	65	0.014	6.4	5.9
BPSL001310644R7MBN	4.7	20	100	45	0.018	5.4	4.8
BPSL001310646R8MBN	6.8	20	100	35	0.035	3.6	5.0
BPSL00131064100MBN	10	20	100	26	0.04	3.3	4.3
BPSL00131064150MBN	15	20	100	21	0.06	2.4	3.5
BPSL00131064220MBN	22	20	100	17	0.08	2.0	2.8
BPSL00131064330MBN	33	20	100	14	0.15	1.7	2.1
BPSL00131064470MBN	47	20	100	12	0.28	1.4	1.7
BPSL00131064680MBN	68	20	100	9	0.3	1.2	1.5
BPSL00131064101MBN	100	20	100	7	0.4	0.95	1.2

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range－40℃～125℃(Including self - temperature rise)
- Isat for Inductance drop 10% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Measure Equipment：

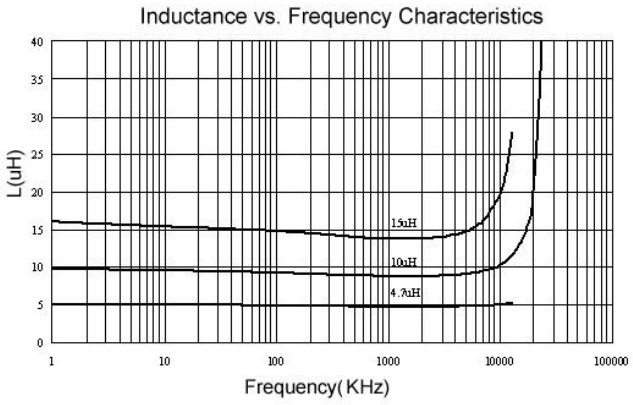
  L：E4980 or HP4284A , 100kHz 0.1V

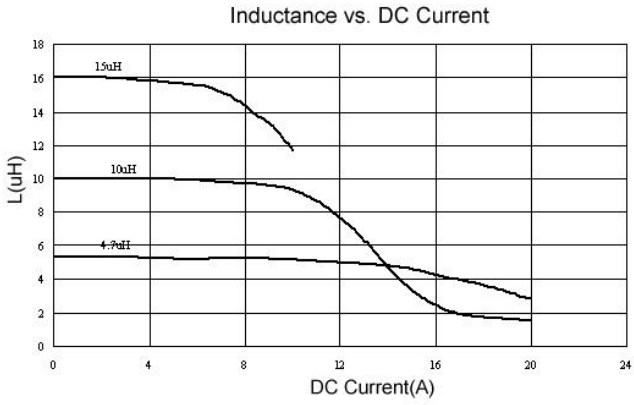
  SRF：HP4291A or HP4192A

  RDC：Chroma 16502

  Isat：HP4284A+HP42841A or WK3260B+WK3265B.

Test Instruments：





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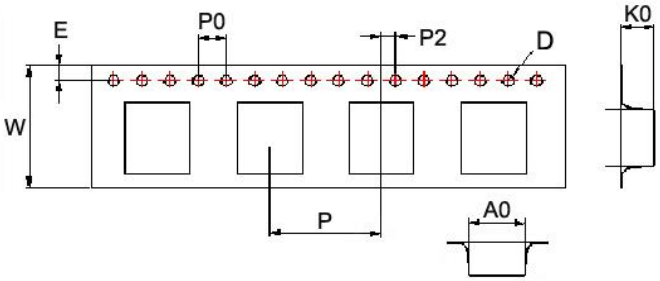
Pulse a YAGEO company

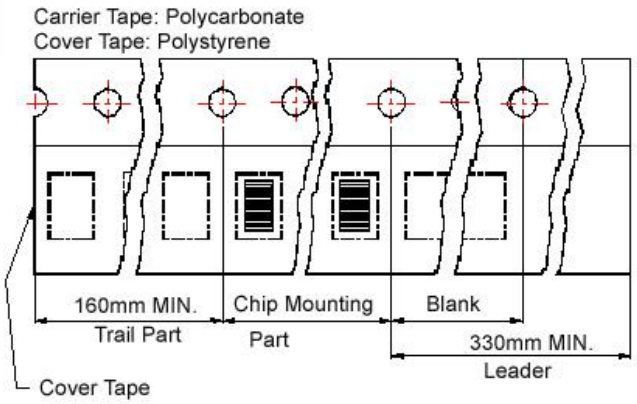
CHILISIN ELECTRONICS CORP.

Packaging Specifications

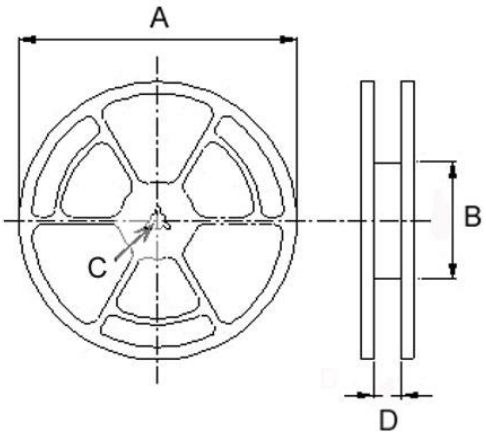
Tape Dimensions



Tape Material



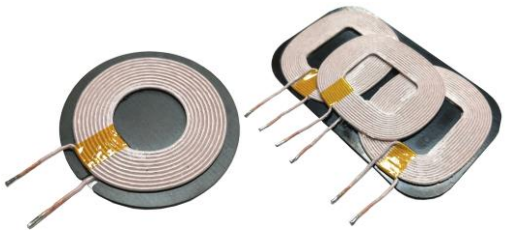
Reel Dimensions



Dimensions in mm

TPYE	Tape Dimensions							Reel Dimensions				Quantity
	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / Reel
BPSL00090650	5.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
BPSL00131064	6.1	1.55	1.75	24	16	4	2	330	100	13	24.2	700

BTWW -TX Series



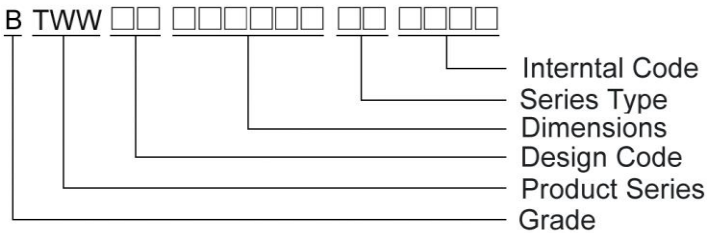
Features

- Designed based on WPC technology
- Tx coil units for WPC BPP (5W) & EPP (15W) specification
- Customized (Non-WPC Standard)

Applications

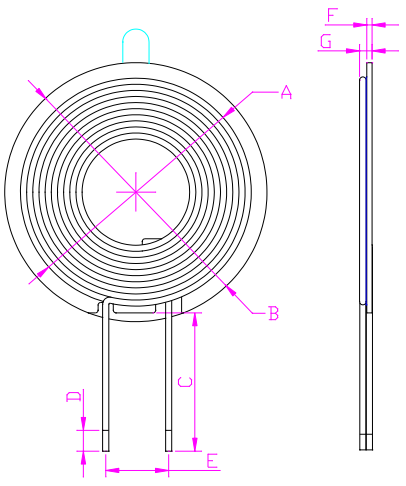
- Charger PAD
- TX Module
- Power Bank
- Automobile

Product Identification

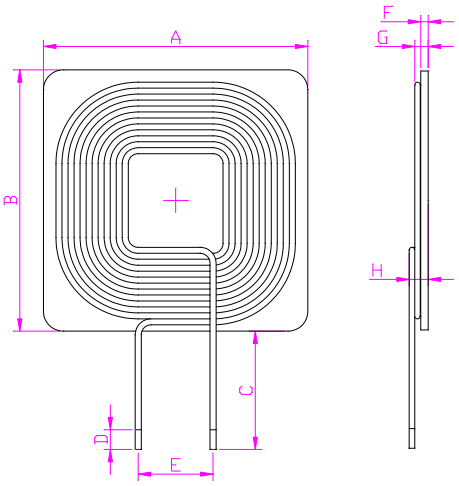


Shapes and Dimensions

BTWW00505024TXA005



BTWW00535340TXA014



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CHILISIN ELECTRONICS CORP.

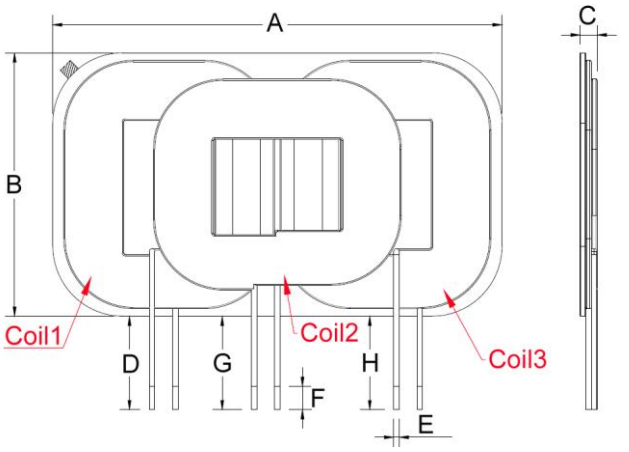
Wirewound WPC Antenna BTWW Series

Dimensions in mm

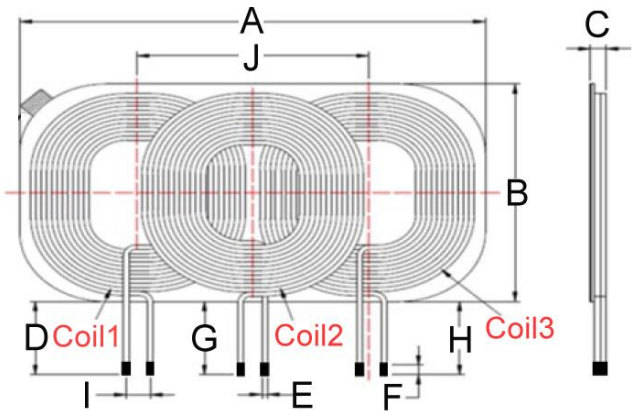
TYPE	A	B	C	D	E	F	G	H
BTWW00505024TXA005	43±1.0	50±0.5	27±2	3±1	12±1	1.0±0.2	2.3±0.5	-
BTWW00535340TXA014	53±0.5	53±0.5	30 Ref	3 Ref	15 Ref	1.5±0.2	2.7±0.5	4 Max

Shapes and Dimensions

BTWW00965640TXA010



BTWW00105742TXA008



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J
BTWW00965640TXA010	96.4±2	56.4±2	4 Max	20±2	1.2 Ref	2.5 Ref	20±2	20±2	-	-
BTWW00105742TXA008	101±2	57±2	4.2 Max	20±2	1.2 Ref	2.5 Ref	20±2	20±2	6 Ref	48±4

Electrical Characteristics

Part Number	Test Frequency (kHz)	Inductance (uH)			Tolerance (±%)	Q	DC Resistance (mΩ)		
		Coil1	Coil2	Coil3			Coil 1	Coil 2	Coil 3
BTWW00505024TXA005	100		6.3		10	80 Min		36±15%	
BTWW00535340TXA014	100		10		10	100 Ref		47±15%	
BTWW00965640TXA010	100	12.5	11.5	12.5	10	-		65±10%	
BTWW00105742TXA008	100	9.8	10.2	9.8	10	-		65±10%	

Note:

- Operating temperature range - 20℃ ~ 85℃(Including self - temperature rise)
- Storage temperature range - 20℃ ~ 85℃ ; 50% RH Max.

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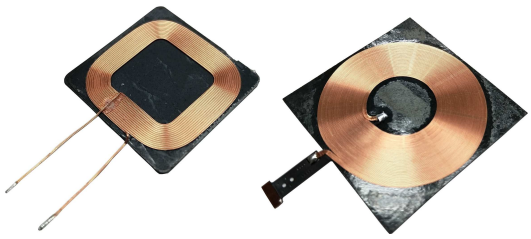
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

BTWW-RX Series



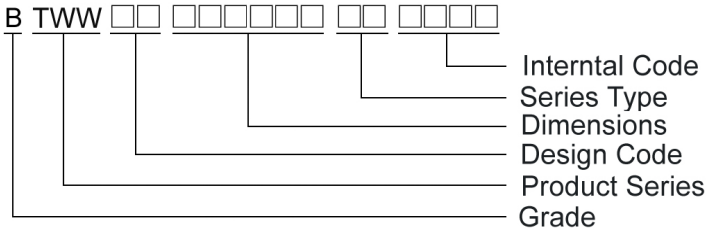
Features

- Receiving coils for Wireless Charger
- Flexible sheet type is available
- Variety of ferrite thickness: from 0.12mm to 0.35mm
- Custom design is available based on each design requirements

Applications

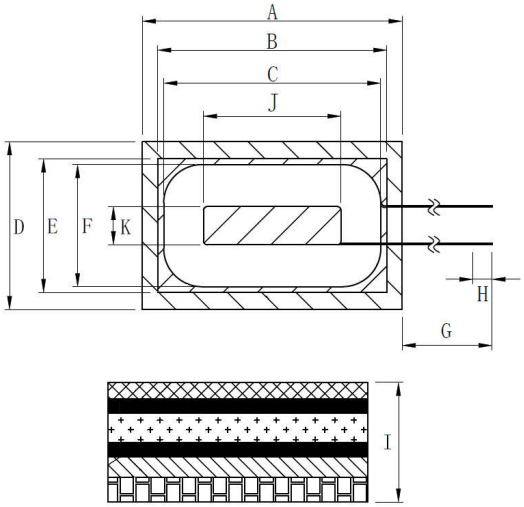
- Cell phone
- Tablet
- Wearable device
- Battery pack

Product Identification

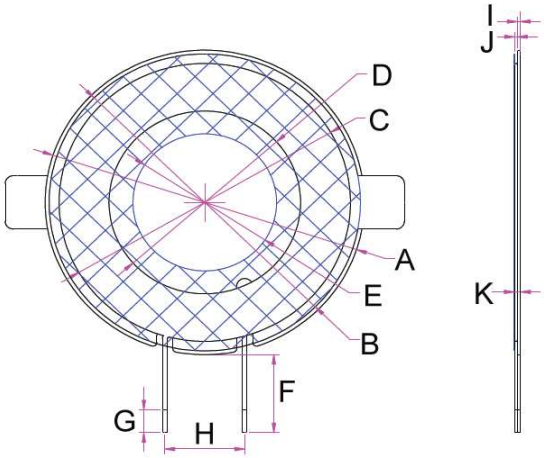


Shapes and Dimensions

BTWW00332265RXA001



BTWW00404007RXA003



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J	K
BTWW00332265RXA001	33±1	30±1	28.4±1	22±1	17.5±1	16±1	28±2	2.5±0.5	0.85±0.2	18±0.5	5±0.5
BTWW00404007RXA003	40±0.5	39±0.5	36.5±1	24±0.5	18±0.5	10±1	3±1	10 Ref	0.35±0.02	0.35±0.05	0.76±0.05

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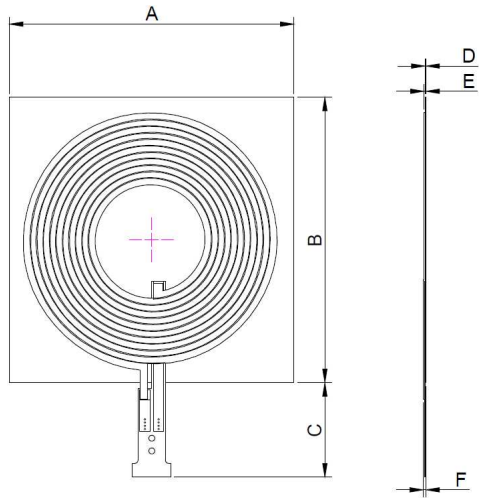
Pulse a YAGEO company

CHILISIN ELECTRONICS CORP.

Shapes and Dimensions

BTWW00675003RXA008



Dimensions in mm

TYPE	A	B	C	D	E	F
BTWW00675003RXA008	50±0.5	50±0.5	17 Ref	0.12±0.05	0.3±0.05	0.47±0.05

Electrical Characteristics

Part Number	Frequency (kHz)	Inductance (uH)	Tolerance (±%)	Q	DC Resistance (mΩ)	Operating temperature	Storage temperature
BTWW00332265RXA001	100	26.6	10	15 Ref	1010 Max	-25℃~70℃	-40℃~85℃
BTWW00404007RXA003	100	7.5	10	-	150±15%	-20℃~85℃	-20℃~85℃
BTWW00675003RXA008	100	8.0	10	23.7±15%	155±15%	-20℃~85℃	-20℃~85℃

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.