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.

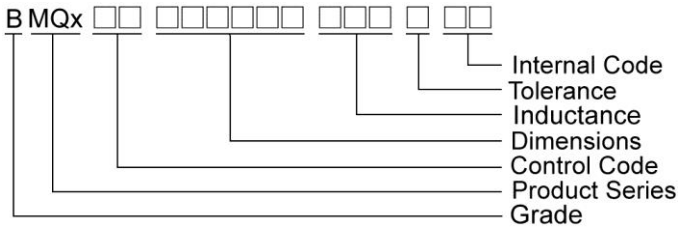
Features

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

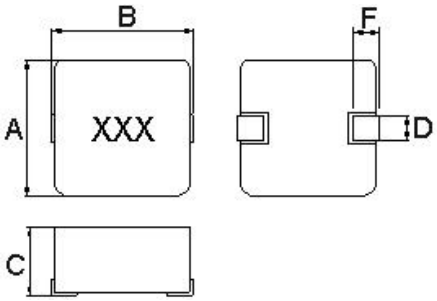
Applications

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

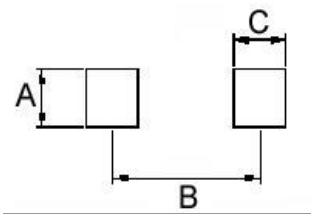
Product Identification



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
BMQE0004010R33MAA	0.33	20	100	14(12)	9.0(11)	6.0(7.0)	R33
BMQE00040101R0MAA	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%

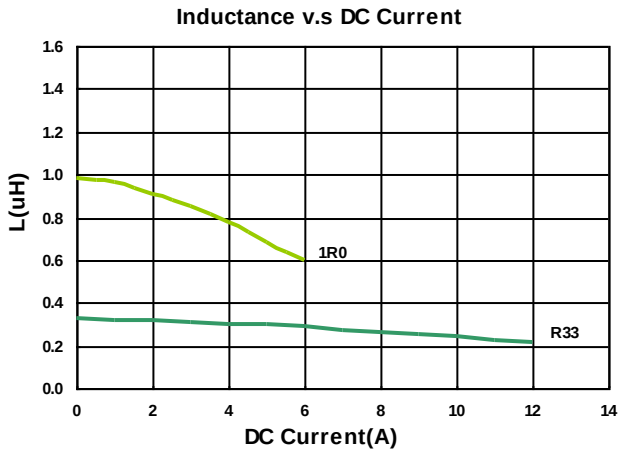
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

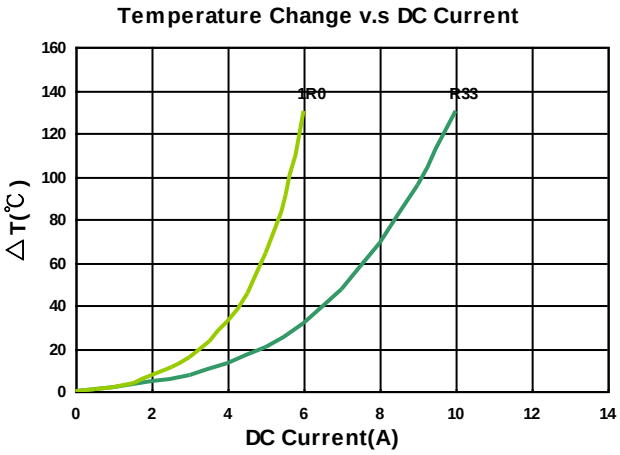
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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 (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%

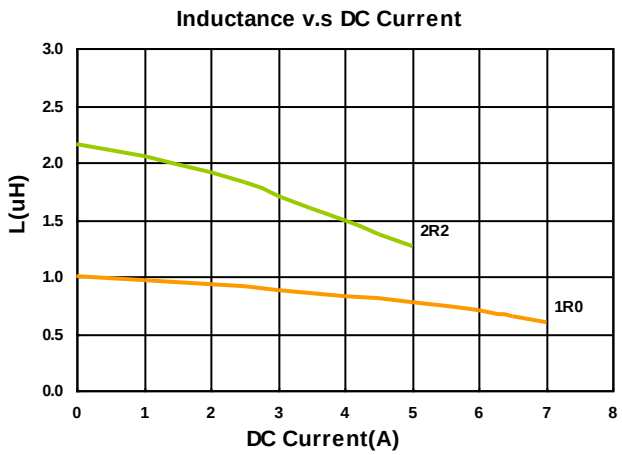
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

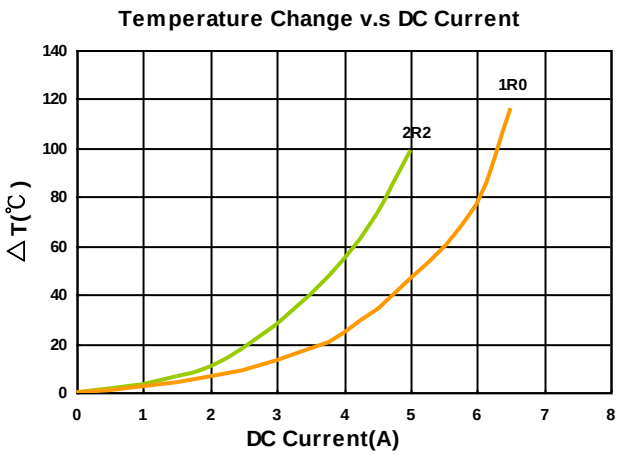
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  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%

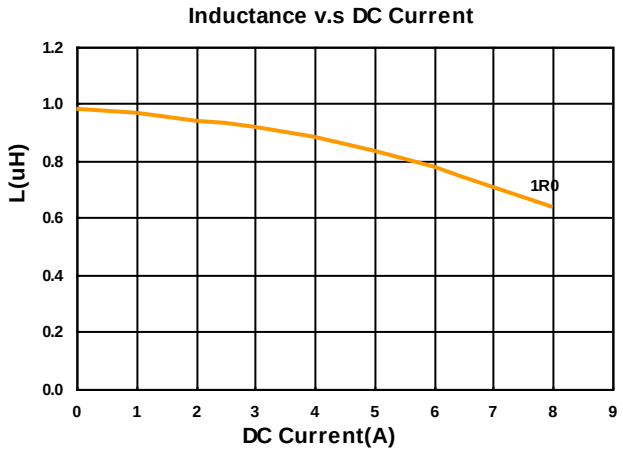
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

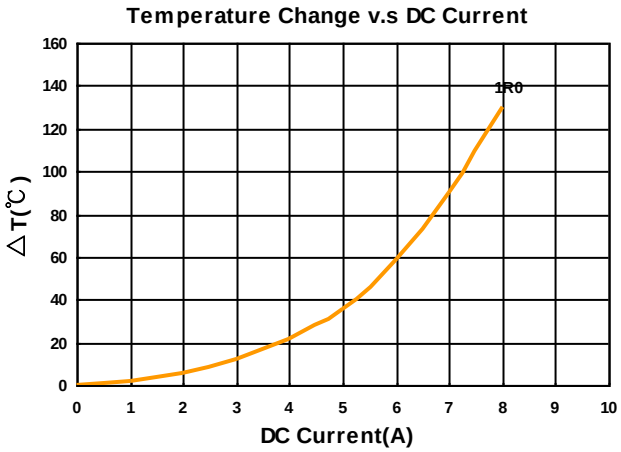
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  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%

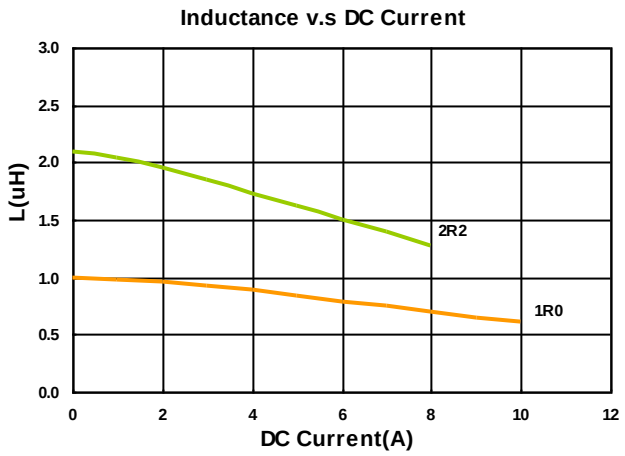
- Operating temperature range - 55℃~125℃(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40℃ temperature rise from 25℃ ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment：

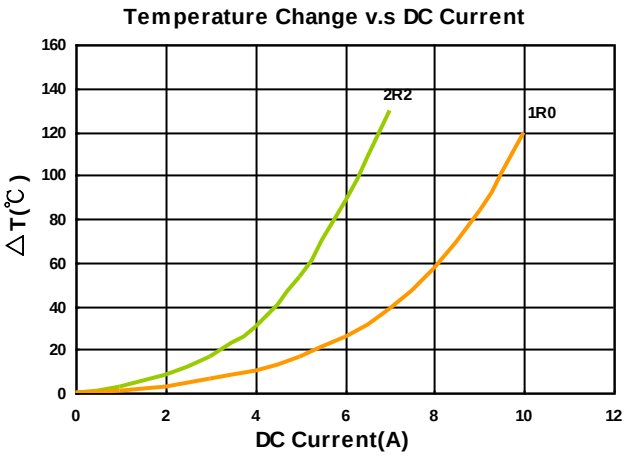
  L：WK 3260B or WK 6500P, 100kHz 0.5V

  RDC：CHEN HWA 502 or CHEN HWA 46502B

  Irms：CHROMA 1810

Test Instruments：WK3260B Impedance / Material Analyzer





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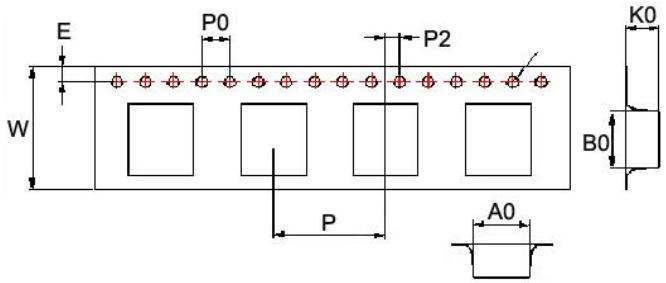
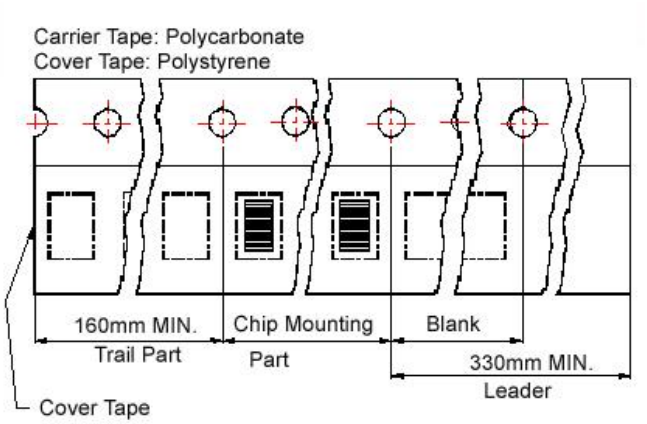
Packaging Specifications

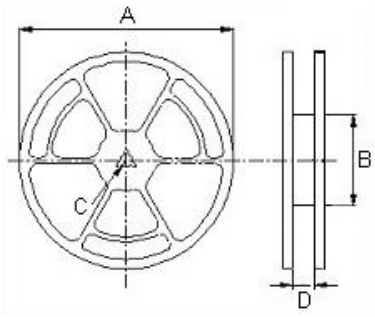
Tape Dimensions



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