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.

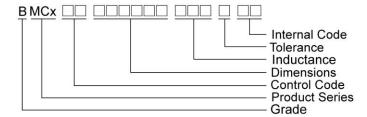
Features

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

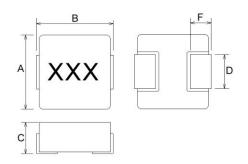
Applications

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

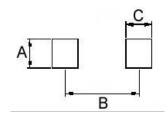
Product Identification



Shape and Dimensions



Recommended Pattern



Dimensions in mm	Dimensions in mm

TYPE	Α	В	С	D	F	TYPE	Α	В	С
BMCA00050512	5.2±0.2	5.4±0.35	1.2Max	2.0±0.3	1.0±0.3	BMCA00050512	2.5	4.1	1.9
BMCA00060630	6.6±0.2	6.95±0.35	2.8±0.2	3.0±0.3	1.6±0.5	BMCA00060630	3.5	6.05	2.35
PMCA00404040	10.0.0.0	11.6Max	20.00	2.5±0.5	25.05	BMCA00101040	4.0	9.5	
BMCA00101040	10.2±0.3	TT.biviax	3.8±0.2	3.0±0.5	2.5±0.5				





Molding Power Inductors - BMCx Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(m Ω) 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

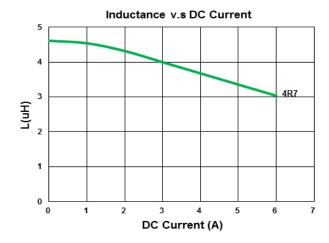
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

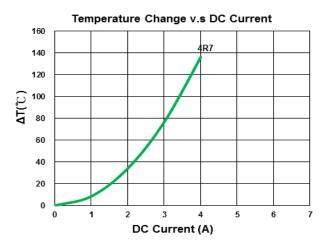
- Operating temperature range 55°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40^oC temperature rise from 25^oC ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :

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







Molding Power Inductors - BMCx Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Frequency		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	

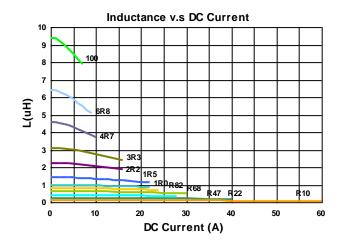
Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

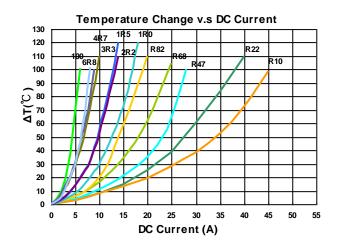
- Operating temperature range 55°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 20% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :

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









Molding Power Inductors - BMCx Series

Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (kHz)	RDC(m Ω) 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

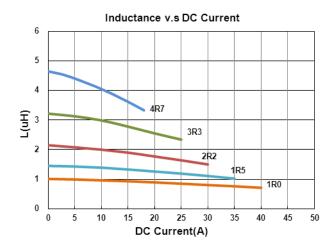
Note: When ordering, please specify tolerance code. Tolerance: M=±20%

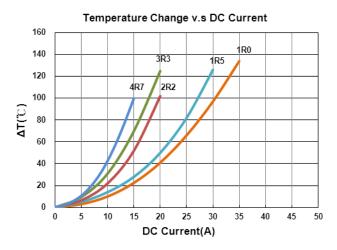
- Operating temperature range 55°C ~ 125°C(Including self temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Absolute maximum voltage 30VDC
- Measure Equipment :

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





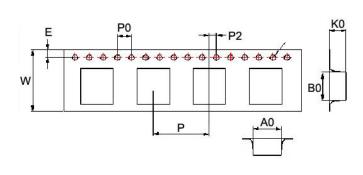




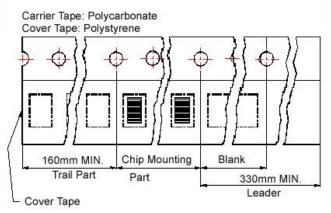
Molding Power Inductors – BMCx Series

Packaging Specifications

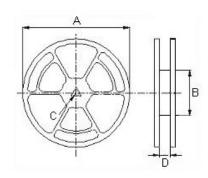
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TVDE				Ta	ape Dim	ensions	5					Quantity		
TYPE	A0	В0	K0	D	E	W	Р	P0	P2	Α	В	С	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



