

Chip Ferrite Bead - MCB & MHC W Series



Feature

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- SMD Type & suitable for reflow and wave soldering
- Available in various sizes
- Excellent solderability and heat resistance
- High reliability
- Effectively filtering capability over a wide range of frequency

How to Order

MCB 16 08 W 12 1 H B P —
 1 2 3 4 5 6 7 8 9

- 1 Series Name
- 2 Size Code: the first two digitals : length (mm), the last two digitals : width (mm)
- 3 W : for Automotive
- 4 Impedance(Ω) \pm 25% } ex. : 121=120 Ω
- 5 Fixed Decimal Point }
- 6 Rated Current Code

A=50mA	B=80mA	C=100mA	D=150mA	E=200mA	F=300mA	G=400mA
H=500mA	I=600mA	J=700mA	K=800mA	L=1000mA	M=1500mA	N=2000mA
P=2500mA	Q=3000mA	R=4000mA	U=5000mA	W=6000mA		

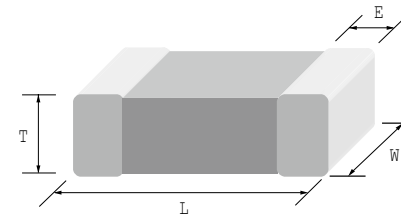
7 Soldering: Green Parts: B—Lead-Free for whole chip

8 Packaging: P— Embossed paper tape, 7" reel.

E—Embossed plastic tape, 7" reel.

9 Material Code

Construction & Dimension



Unit: mm

Size Code EIAJ (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)	4516 (1806)
L	1.00 \pm 0.10	1.60 \pm 0.15	2.00 \pm 0.20	3.20 \pm 0.20	4.50 \pm 0.25
W	0.50 \pm 0.10	0.80 \pm 0.15	1.25 \pm 0.20	1.60 \pm 0.20	1.60 \pm 0.20
T	0.50 \pm 0.10	0.80 \pm 0.15	0.90 \pm 0.20	1.10 \pm 0.20	1.60 \pm 0.20
E	0.25 \pm 0.10	0.30 \pm 0.20	0.50 \pm 0.30	0.50 \pm 0.30	0.60 \pm 0.40

■ Chip Ferrite Bead

Part No.	Impedance(Ω) +/-25%	Test Freq. (MHz)	DCR(Ω) (Max.)	Rated Current (mA)
MCB1005 Series				
MCB1005W121HBP	120	100	0.25	500
MCB1005W241FBP	240	100	0.35	300
MCB1005W601EBPB	600	100	0.65	200
MCB1005W102EBP	1000	100	1.00	200
MCB1005W102EBPB	1000	100	0.90	200
MCB1005W182EBPB	1800	100	1.40	200
MCB1608 Series				
MCB1608W121HBP	120	100	0.18	500
MCB1608W221HBP	220	100	0.25	500
MCB1608W471HBP	470	100	0.35	500
MCB1608W601HBP	600	100	0.38	500
MCB1608W102GBP	1000	100	0.50	400
MCB1608W182ABP	1800	100	1.50	50
MCB1608W222ABP	2200	100	1.50	50
MCB1608W252ABP	2500	100	1.50	50
MCB2012 Series				
MCB2012W121EBP	120	100	0.15	200
MCB2012W151EBP	150	100	0.15	200
MCB2012W221EBP	220	100	0.20	200
MCB2012W601EBP	600	100	0.30	200
MCB2012W102EBP	1000	100	0.45	200
MCB3216 Series				
MCB3216W601EBE	600	100	0.90	200

■ Chip Ferrite Bead For High Speed

Part No.	Impedance(Ω) +/-25%	Test Freq. (MHz)	DCR(Ω) (Max.)	Rated Current (mA)
MCB1005 Series				
MCB1005W750FBPH	75	100	0.40	300
MCB1608 Series				
MCB1608W750HBPH	75	100	0.30	500
MCB1608 Series				
MCB1608W121EBPH	120	100	0.40	200
MCB1608W241EBPH	240	100	0.45	200
MCB1608W601EBPH	600	100	0.65	200
MCB1608W102CBPH	1000	100	0.85	100
MCB2012 Series				
MCB2012W121EBPH	120	100	0.25	200
MCB2012W151EBPH	150	100	0.25	200
MCB2012W221EBPH	220	100	0.25	200
MCB2012W601EBPH	600	100	0.35	200
MCB2012W222EBPH	2200	100	0.60	200

■ High Current Chip Ferrite Bead

Part No.	Impedance(Ω) +/-25%	Test Freq. (MHz)	DCR(Ω) (Max.)	Rated Current (mA)
MHC1005 Series				
MHC1005W100LBP	10	100	0.05	1000
MHC1608 Series				
MHC1608W300LBP	30	100	0.05	1000
MHC1608W600LBP	60	100	0.10	1000
MHC1608W121NBP	120	100	0.05	2000
MHC1608W181MBP	180	100	0.09	1500
MHC1608W221MBP	220	100	0.10	1500
MHC1608W301MBP	300	100	0.15	1500
MHC1608W471LBP	470	100	0.20	1000
MHC2012 Series				
MHC2012W310QBP	31	100	0.015	3000
MHC2012W600QBP	60	100	0.026	3000
MHC2012W221NBP	220	100	0.050	2000
MHC2012W331MBP	330	100	0.090	1500
MHC3216 Series				
MHC3216W500QBE	50	100	0.025	3000
MHC3216W121QBE	120	100	0.025	3000
MHC3216 Series				
MHC3216W601MBE	600	100	0.090	1500
MHC4516 Series				
MHC4516W600WBE	60	100	0.010	6000

General Technical Data

Operating temperature range : - 55°C ~ +125°C
 Storage temperature range : - 20°C ~ +60°C
 Storage Condition : Less than 40°C and 70% RH
 Storage Time: 6 months (Size:1005)
 12 months (Size:1608 above)

Package

Size EIAJ (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)	4516 (1806)
Standard Packing Quantity (pcs/reel)	10,000	4,000	4,000	3,000	2,000