

Ferrite Chip Beads for High Speed

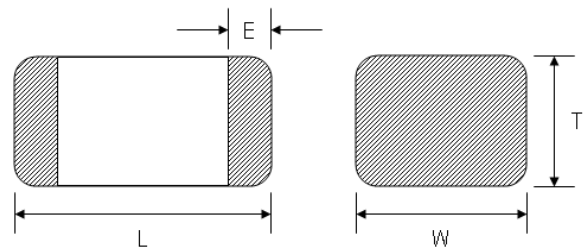
Application Field

Filtering between analog and digital circuitry, clock generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry. Sharp impedance characteristics can effectively minimize attenuation, high frequency EMI prevention of LCD Monitor, PDA, Computer Peripherals, Cellular Equipment, Digital TV, Digital Cameras, Audio/Visual Equipment, DVD, Wireless Communication Devices, MP3.

Directions

- ◎ Impedance Range : 10 to 1000 Ohms @ 100MHz
- ◎ Operating Temperature Range : -55°C to +125°C
- ◎ Soldering Method : Reflow or Wave Soldering
- ◎ Packaging Method : Tape & Reel (per EIA Specifications)
- ◎ Storage Temperature : -40°C to +85°C , 70% RH Max

Dimensions and footprint (Unit : mm)



Unit : mm(inches)

Size	Length(L)	Width(W)	Thickness(T)	Electrode Width(E)
MCB-060303H	0.60±0.030(0.024±0.001)	0.30±0.030(0.012±0.001)	0.3±0.030(0.012±0.001)	0.15±0.050(0.006±0.002)
MCB-100505H	1.00±0.100(0.040±0.004)	0.50±0.100(0.020±0.004)	0.50±0.100(0.020±0.004)	0.25±0.100(0.010±0.004)
MCB-160808H	1.60±0.150(0.063±0.006)	0.80±0.150(0.031±0.006)	0.80±0.150(0.031±0.006)	0.30±0.200(0.012±0.008)
MCB-201209H	2.00±0.200(0.079±0.008)	1.25±0.200(0.049±0.008)	0.90±0.200(0.035±0.008)	0.50±0.300(0.020±0.012)

Product Detail

Electrical Characteristics			Test Instruments
Z	(Ref. Page 7~10)	TEST FREQ : (Ref. Page 7~10)MHz TEST LEVEL : 250 mV	HP4291B RF IMPEDANCE / MATERIAL ANALYZER HP4338A/B MILLIOHMMETER Agilent 8720ES S-PARAMETER NETWORK ANALYZER HP6632B SYSTEM DC POWER SUPPLY
θ	NA		
SRF	NA		
DCR	(Ref. Page 7~10)		
IDC	mA (Ref. Page 7~10)		

Part Number Code

MCB - 160808 - H 0120
 1 2 3 4

- 1、Product Code
- 2、Dimensions Code
- 3、Series Type : H = For High Speed
- 4、Impedance(Ω)

Specification

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-060303H-0010	10±5Ω	100	0.25	200
MCB-060303H-0047	47	100	0.70	200
MCB-060303H-0075	75	100	1.00	200
MCB-060303H-0120	120	100	1.50	100

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-100505H-0022	22	100	0.20	300
MCB-100505H-0047	47	100	0.35	300
MCB-100505H-0075	75	100	0.40	300
MCB-100505H-0120	120	100	0.55	300
MCB-100505H-0220	220	100	0.55	200
MCB-100505H-0300	300	100	1.00	100

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-160808H-0030	30	100	0.30	250
MCB-160808H-0070	70	100	0.40	200
MCB-160808H-0120	120	100	0.40	200
MCB-160808H-0240	240	100	0.40	200
MCB-160808H-0300	300	100	0.50	100
MCB-160808H-0420	420	100	0.50	100
MCB-160808H-0600	600	100	0.60	100

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-201209H-0030	30	100	0.20	300
MCB-201209H-0070	70	100	0.40	300
MCB-201209H-0100	100	100	0.40	300
MCB-201209H-0120	120	100	0.40	300
MCB-201209H-0200	200	100	0.50	200
MCB-201209H-0300	300	100	0.50	200
MCB-201209H-0450	450	100	0.50	200
MCB-201209H-0600	600	100	0.60	200
MCB-201209H-0750	750	100	0.70	200
MCB-201209H-1000	1000	100	0.80	200