

Ferrite Chip Beads for High Current Applications

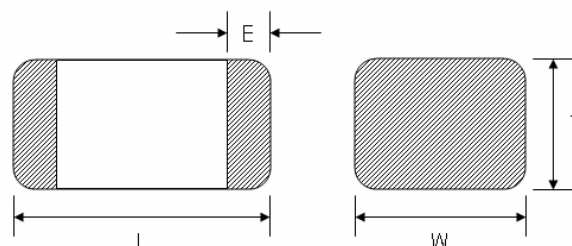
Application Field

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. For Hard Drives, Modems, Printers, CD-ROMs, Monitors, Motherboards.

Directions

- ◎Impedance Range : 10 to 680 Ohms
- ◎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-060603P	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-100505P	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-160808P	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-201209P	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)
MCB-321611P	3.20±0.200(0.126±0.008)	1.60±0.200(0.063±0.008)	1.10±0.200(0.043±0.008)	0.50±0.300(0.020±0.012)

Product Detail

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

Part Number Code

MCB - 160808 - P 0120
1 2 3 4

- 1、Product Code
- 2、Dimensions Code
- 3、Series Type : P = For High Current Applications
- 4、Impedance(Ω)

Specification

Part No.	Impedance (Ω) $\pm$ 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-060603P-0022	22	100	0.065	900
MCB-060603P-0033	33	100	0.070	500

Part No.	Impedance (Ω) $\pm$ 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-100505P-0010	10	100	0.005	1000
MCB-100505P-0120	120	100	0.095	1500
MCB-100505P-0220	220	100	0.280	700

Part No.	Impedance (Ω) $\pm$ 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-160808P-0010	10	100	0.010	5000
MCB-160808P-0025	25	100	0.030	4000
MCB-160808P-0030	30	100	0.030	3000
MCB-160808P-0060	60	100	0.040	3000
MCB-160808P-0120	120	100	0.050	2500
MCB-160808P-0150	150	100	0.100	2000
MCB-160808P-0220	220	100	0.100	2000
MCB-160808P-0300	300	100	0.100	2000
MCB-160808P-0470	470	100	0.150	1500
MCB-160808P-0600	600	100	0.200	1500

Part No.	Impedance (Ω) $\pm$ 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-201209P-0010	10	100	0.010	6000
MCB-201209P-0020	20	100	0.010	6000
MCB-201209P-0030	30	100	0.015	6000
MCB-201209P-0060	60	100	0.025	3000
MCB-201209P-0080	80	100	0.040	3000
MCB-201209P-0120	120	100	0.040	3000
MCB-201209P-0150	150	100	0.040	3000
MCB-201209P-0220	220	100	0.040	2000
MCB-201209P-0300	300	100	0.070	2000
MCB-201209P-0470	470	100	0.100	2000
MCB-201209P-0600	600	100	0.100	2000

Part No.	Impedance (Ω) $\pm$ 25%	Test Freq. (MHz)	DCR Max. (Ω)	Standard Rated Current (mA)
MCB-321611P-0030	30	100	0.030	4000
MCB-321611P-0050	50	100	0.030	4000
MCB-321611P-0080	80	100	0.030	4000
MCB-321611P-0120	120	100	0.040	3000
MCB-321611P-0300	300	100	0.060	2500
MCB-321611P-0500	500	100	0.070	2000