

Ferrite Chip Beads for General Applications

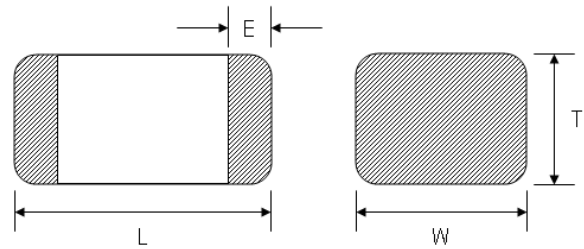
Application Field

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, high frequency EMI prevention of computers, printers, VCRs, TVs and portable telephones.

Directions

- ⊙ Impedance Range : 10 to 2700 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-060303S	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-100505S	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-160808S	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-201209S	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-321611S	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	(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 - S 0120
 1 2 3 4

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

Specification

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-060303S-0080	80	100	0.40	300
MCB-060303S-0120	120	100	0.50	250
MCB-060303S-0240	240	100	0.80	200
MCB-060303S-0300	300	100	1.00	100

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-100505S-0030	30	100	0.15	500
MCB-100505S-0060	60	100	0.15	500
MCB-100505S-0120	120	100	0.25	500
MCB-100505S-0220	220	100	0.35	300
MCB-100505S-0300	300	100	0.45	300
MCB-100505S-0470	470	100	0.55	300
MCB-100505S-0600	600	100	0.60	300
MCB-100505S-1000	1000	100	1.00	200

Part No.	Impedance (Ω) ± 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-160808S-0030	30	100	0.20	400
MCB-160808S-0040	40	100	0.20	400
MCB-160808S-0060	60	100	0.20	300
MCB-160808S-0080	80	100	0.40	300
MCB-160808S-0100	100	100	0.40	200
MCB-160808S-0120	120	100	0.40	200
MCB-160808S-0180	180	100	0.50	200
MCB-160808S-0220	220	100	0.50	200
MCB-160808S-0240	240	100	0.50	200
MCB-160808S-0300	300	100	0.50	200
MCB-160808S-0450	450	100	0.70	200
MCB-160808S-0600	600	100	0.70	150
MCB-160808S-1000	1000	100	1.00	100
MCB-160808S-1200	1200	100	1.00	100
MCB-160808S-1500	1500	100	1.20	200

Part No.	Impedance (Ω) \pm 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-201209S-0010	10	100	0.10	600
MCB-201209S-0017	17	100	0.10	600
MCB-201209S-0030	30	100	0.10	500
MCB-201209S-0080	80	100	0.30	400
MCB-201209S-0120	120	100	0.30	300
MCB-201209S-0150	150	100	0.30	300
MCB-201209S-0220	220	100	0.50	250
MCB-201209S-0300	300	100	0.50	250
MCB-201209S-0400	400	100	0.50	250
MCB-201209S-0600	600	100	0.60	200
MCB-201209S-1000	1000	100	0.80	200
MCB-201209S-1200	1200	100	0.80	100
MCB-201209S-1500	1500	100	1.00	100
MCB-201209S-2000	2000	100	1.00	100
MCB-201209S-2200	2200	100	1.00	100
MCB-201209S-2700	2700	100	1.50	100

Part No.	Impedance (Ω) \pm 25%	Test Freq. (MHz)	DCR Max.(Ω)	Standard Rated Current (mA)
MCB-321611S-0026	26	100	0.20	600
MCB-321611S-0031	31	100	0.20	600
MCB-321611S-0050	50	100	0.20	500
MCB-321611S-0070	70	100	0.20	500
MCB-321611S-0090	90	100	0.30	500
MCB-321611S-0120	120	100	0.30	500
MCB-321611S-0150	150	100	0.30	500
MCB-321611S-0220	220	100	0.40	400
MCB-321611S-0400	400	100	0.40	300
MCB-321611S-0500	500	100	0.40	300
MCB-321611S-0600	600	100	0.50	250
MCB-321611S-1200	1200	100	0.70	200
MCB-321611S-1500	1500	100	1.00	200
MCB-321611S-2000	2000	100	1.50	150