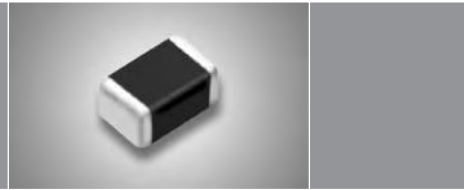


Chip Ferrite Bead For High Speed MCB-H/U Series



► Features

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- S.M.D Type & suitable for reflow and wave soldering.
- Available in various sizes.
- Excellent solderability and heat resistance.
- High reliability
- With a sharp and high frequency impedance characteristics which can effectively filter high frequency noise without attenuating high frequency signal.

► Applications

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, Computers, Computer Peripherals, Cellular Equipment, Digital TV, Digital Cameras, Audio/Visual Equipment, DVD, Wireless Communication Devices, MP3.

► How to Order

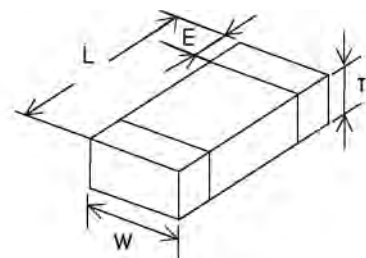
MCB 1608 H 12 1 E B —
 1 2 3 4 5 6 7 7

- 1 Series type : Chip Ferrite Bead
- 2 Size (mm): Length x Width
- 3 Product Characteristics : H=for High Speed : U= for Ultra High Speed
- 4 Impedance (Ω)/ $\pm 25\%$
- 5 Fixed Decimal Point ex.: $60\Omega \rightarrow 600$; $120\Omega \rightarrow 121$
- 6 Rated Current :
 A =50mA, B=80mA, C=100mA, D=150mA, E=200mA, F=300mA,
 G=400mA, H=500mA, I=600mA, J=700mA, K=800mA
- 7 Soldering: Green Parts: A—Soldering Lead-Free, B—Lead-Free for whole chip
- 8 Packaging: P—Embossed paper tape, 7" reel
 E—Embossed plastic tape, 7" reel
 N—Embossed anti-static electricity tape, 7" reel
 T—Embossed anti-static electricity tape, 13" reel

► Dimensions

Unit:mm

Size (EIA)	1608 (0603)	2012 (0805)	3216 (1206)
L	1.60 \pm 0.15	2.00 \pm 0.20	3.20 \pm 0.20
W	0.80 \pm 0.15	1.25 \pm 0.20	1.60 \pm 0.20
T	0.80 \pm 0.15	0.90 \pm 0.20	1.10 \pm 0.20
E	0.30 \pm 0.20	0.50 \pm 0.30	0.50 \pm 0.30



Chip Ferrite Bead For High Speed–MCB-H/U Series

Specifications

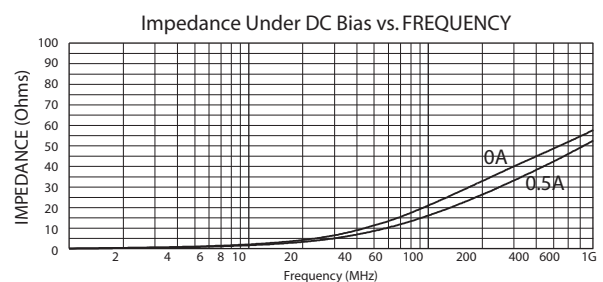
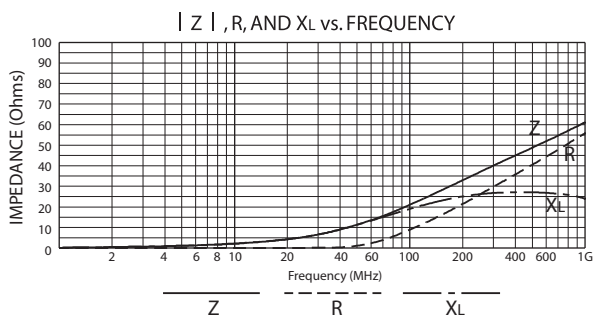
Part Number	Impedance (Ω) +/-25%	Test Freq. (MHz)	DCR (Ω) Max	Rated Current (mA)
1608 (EIA 0603)				
MCB1608H200H_	20	100	0.25	500
MCB1608H600H_	60	100	0.25	500
MCB1608H800H_	80	100	0.35	500
MCB1608H121E_	120	100	0.45	200
MCB1608H241 E_	240	100	0.45	200
MCB1608H301 E_	300	100	0.45	200
MCB1608H601 E_	600	100	0.50	200
MCB1608U200H_	20	100	0.25	500
MCB1608U750F_	75	100	0.35	300
MCB1608U121E_	120	100	0.45	200
MCB1608U241E_	240	100	0.65	200
2012 (EIA 0805)				
MCB2012H101E_	100	100	0.25	200
MCB2012H121E_	120	100	0.25	200
MCB2012H151E_	150	100	0.25	200
MCB2012H221E_	220	100	0.25	200
MCB2012H301E_	300	100	0.25	200
MCB2012H471E_	470	100	0.35	200
MCB2012H601E_	600	100	0.35	200
3216 (EIA 1206)				
MCB3216H121E_	120	100	0.20	200
MCB3216H151E_	150	100	0.25	200
MCB3216H301E_	300	100	0.30	200
MCB3216H601E_	600	100	0.45	200

General Technical Data

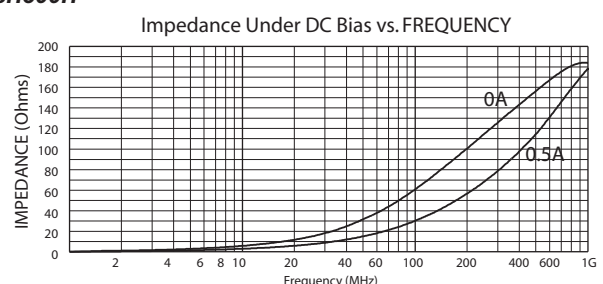
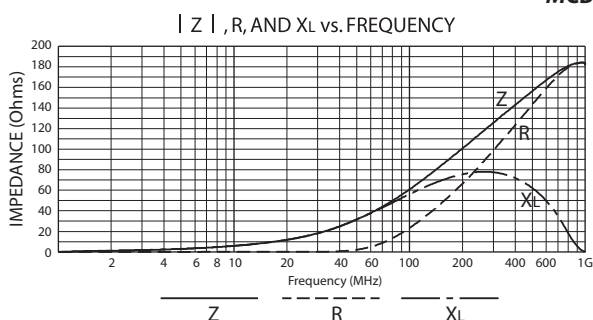
Operating temperature range	-55°C ~ +125°C
Storage condition	-40°C ~ +85°C, 70% RH Max
Soldering method	Reflow or Wave Soldering

Impedance vs. Frequency

MCB1608H200H

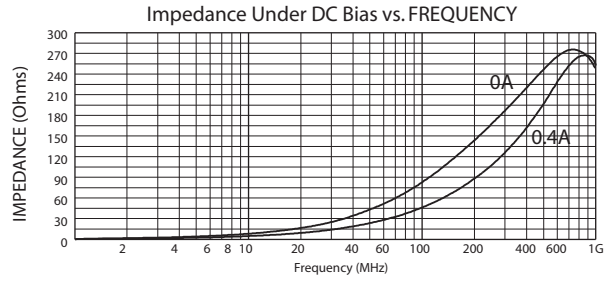
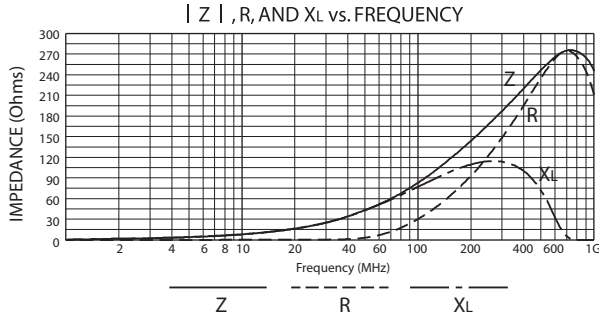


MCB1608H600H

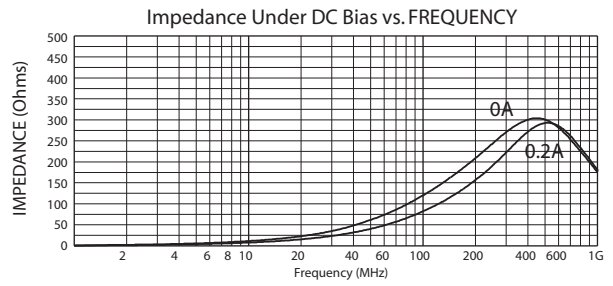
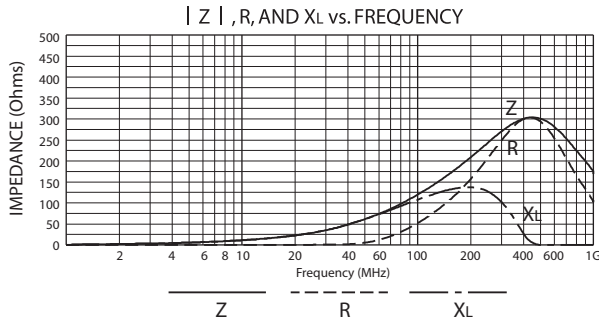


Chip Ferrite Bead For High Speed-MCB-H/U Series

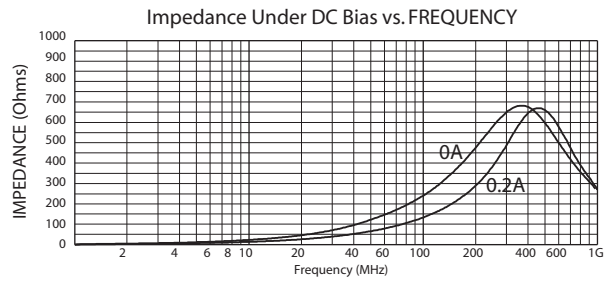
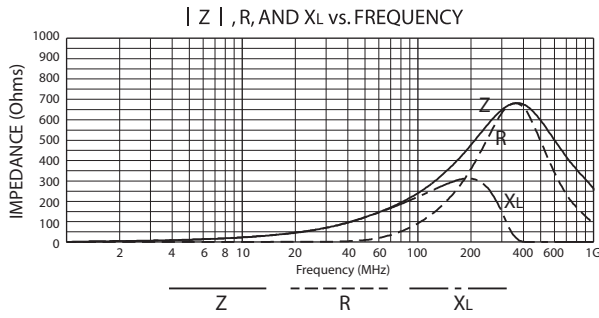
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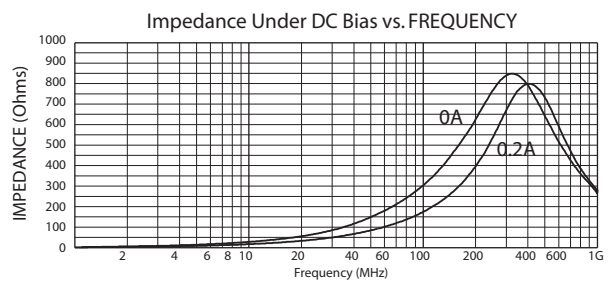
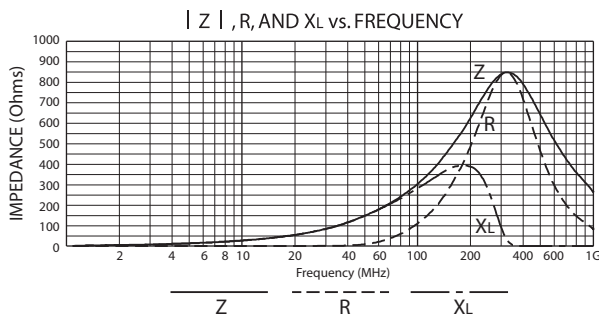
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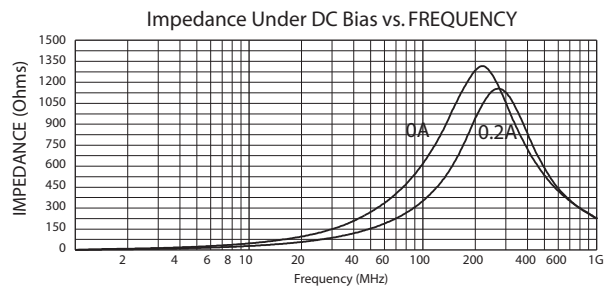
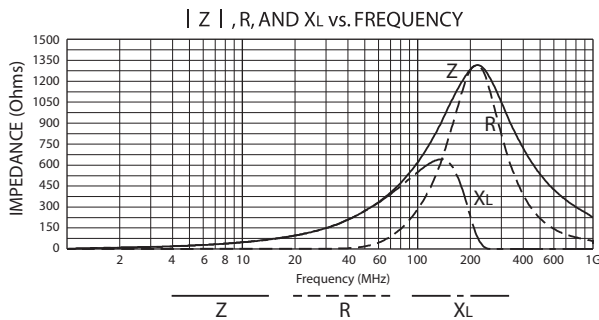
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MCB1608H301E

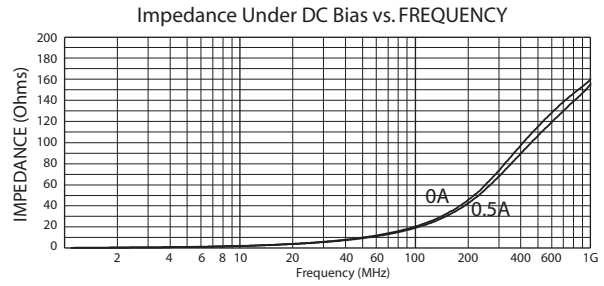
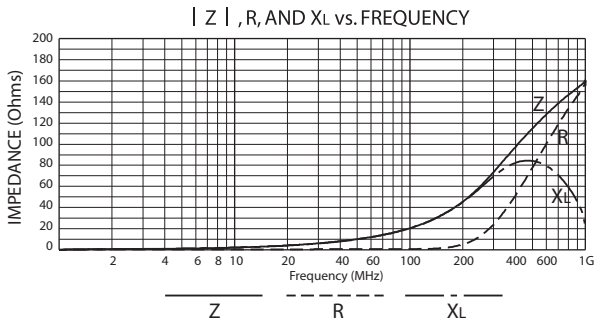


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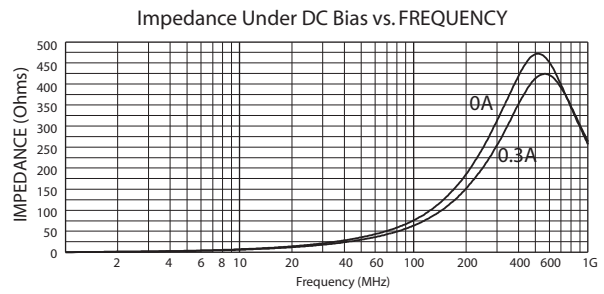
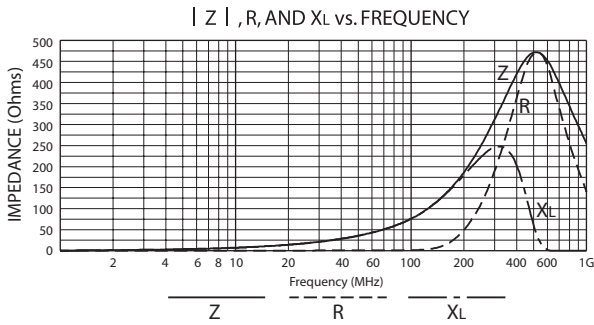


Chip Ferrite Bead For High Speed-MCB-H/U Series

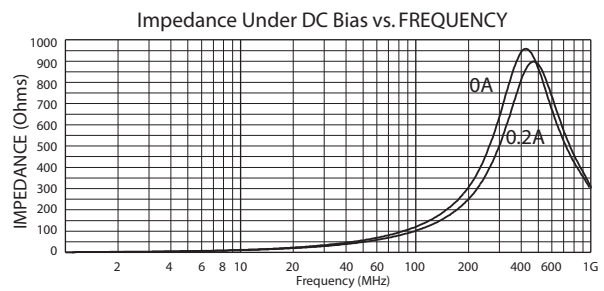
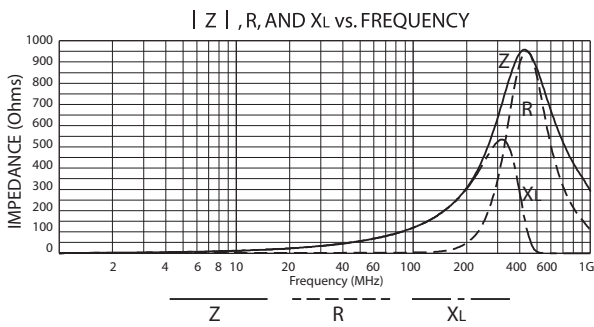
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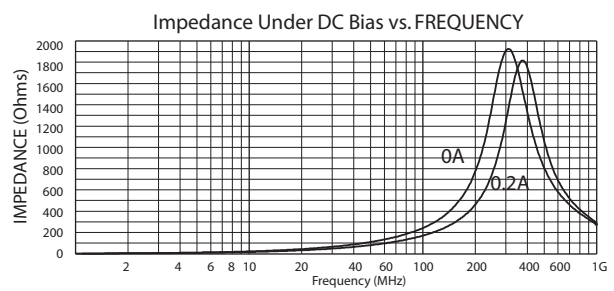
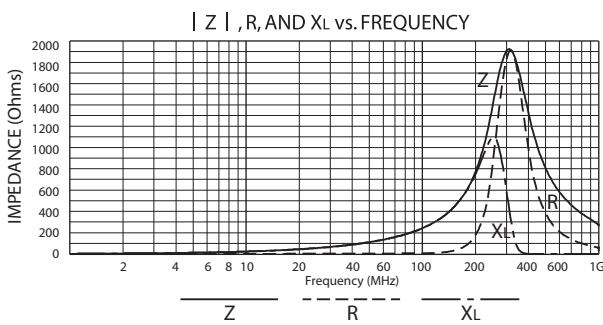
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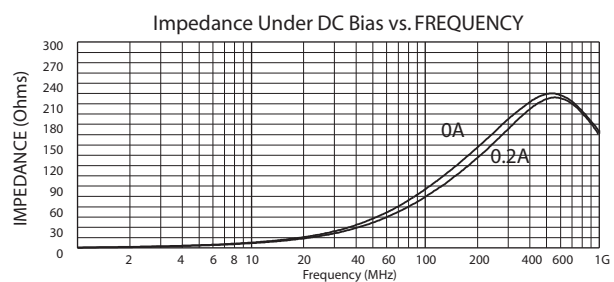
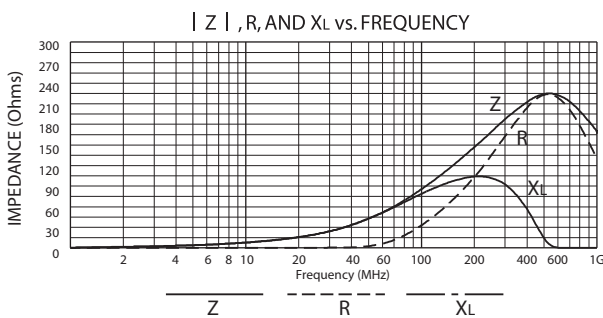
MCB1608U121E



MCB1608U241E

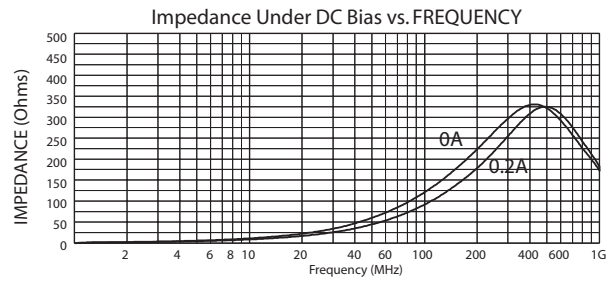
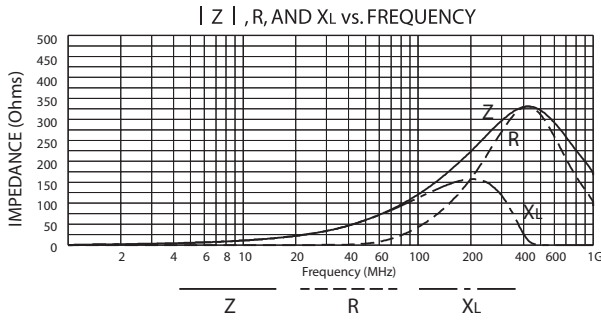


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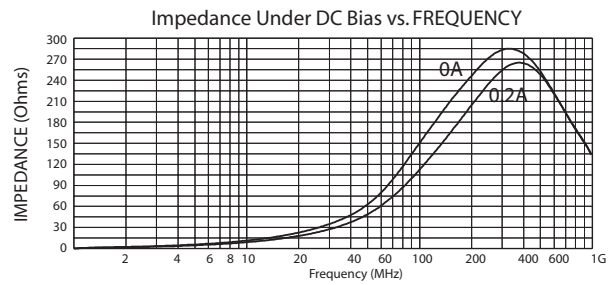
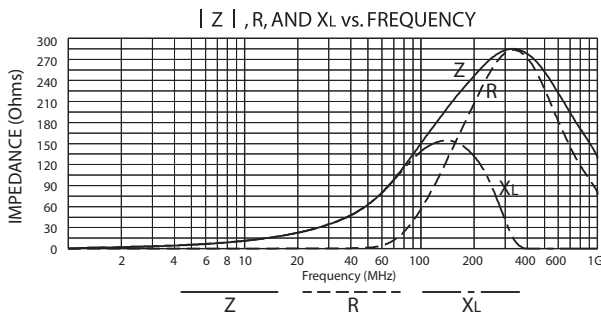


Chip Ferrite Bead For High Speed-MCB-H/U Series

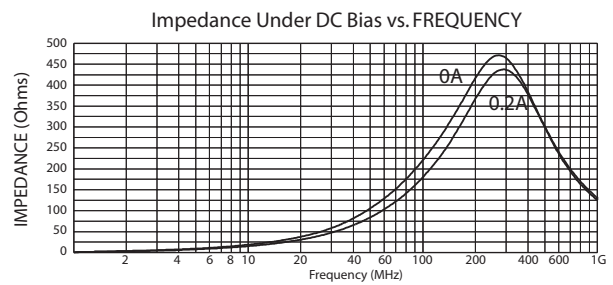
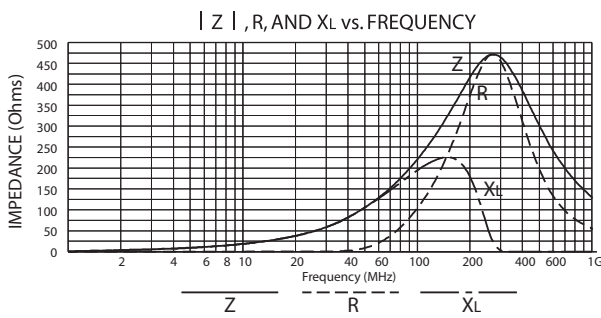
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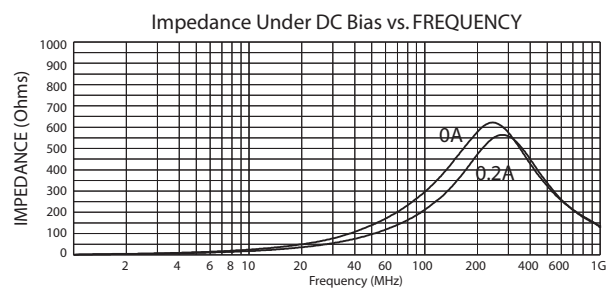
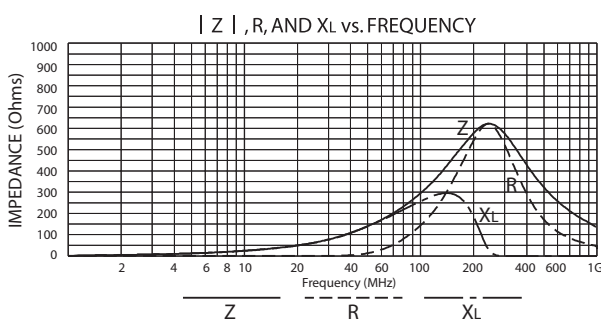
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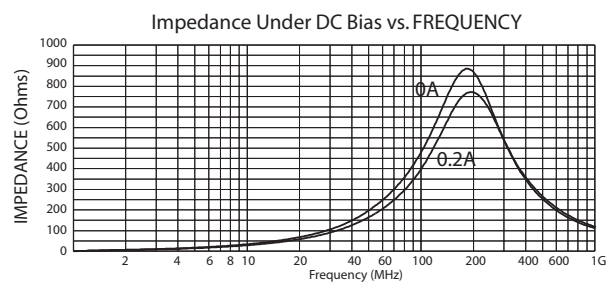
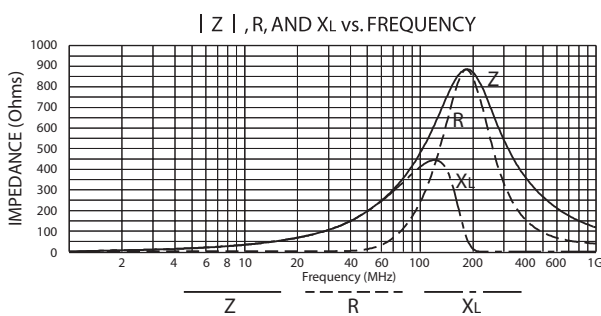
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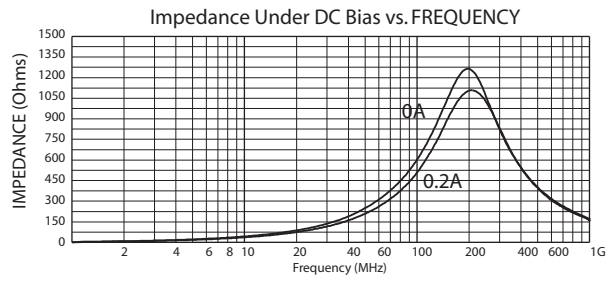
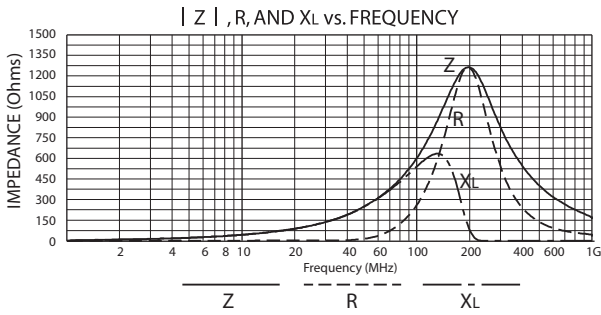


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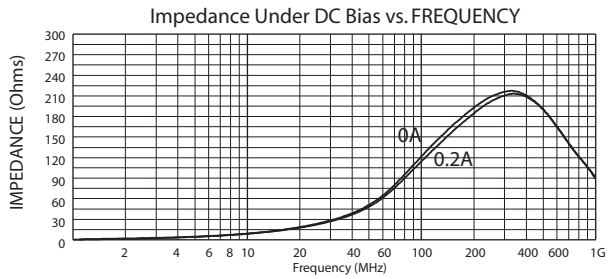
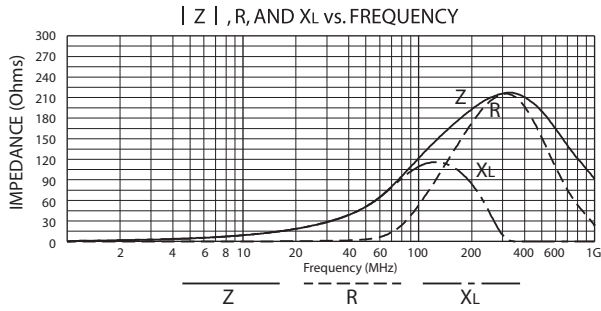


Chip Ferrite Bead For High Speed-MCB-H/U Series

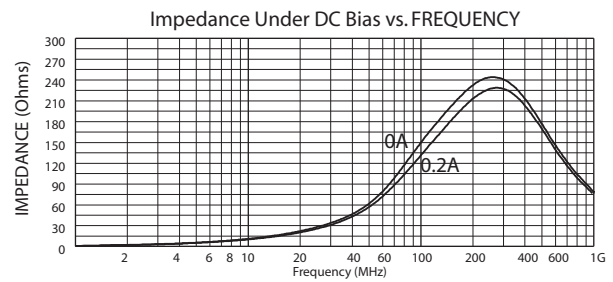
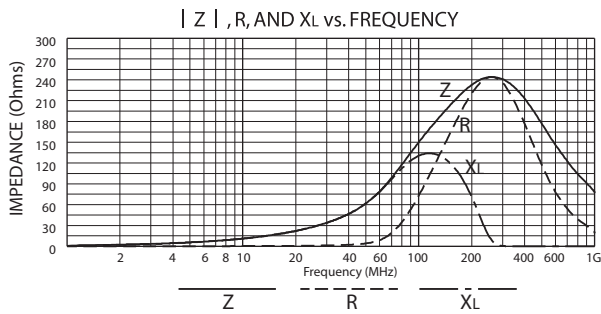
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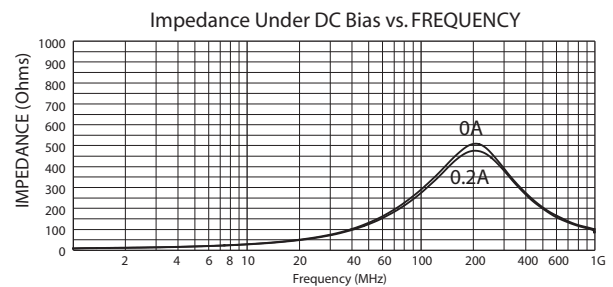
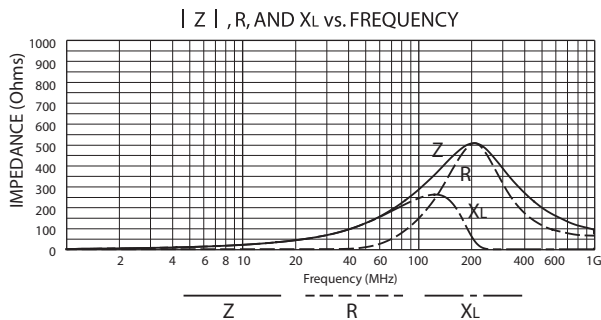
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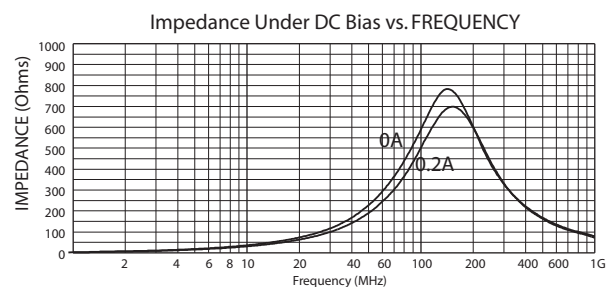
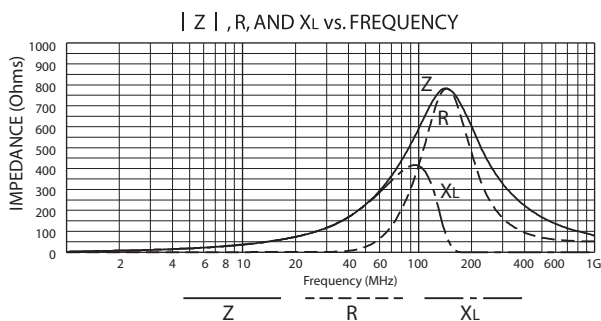
MCB3216H151E



MCB3216H301E



MCB3216H601E



Package

Standard packing quantity

PART SIZE	1608 (EIA 0603)	2012 (EIA 0805)	3216 (EIA 1206)
Quantity (pcs/reel)	4,000	4,000	3,000

