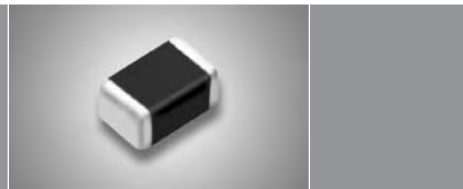


High Current Chip Ferrite Bead MHC Series



► Features

- Combination of high frequency noise suppression with capability of handing high current.
- The current rating up to 6 Amps with low DCR.

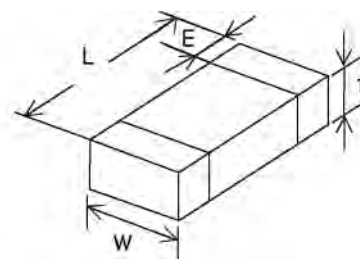
► Applications

- High current DC power lines.
- Circuits where a stable ground is unavailable.

► How to Order

MHC 1608 S 12 1 P B —
1 2 3 4 5 6 7 8

- Series type : High Current Chip Ferrite Bead
- Chip size(mm) : Length x Width
- Product Characteristics : S—For Standard Application
- Impedance (Ω)/ $\pm 25\%$ ex.: $60\Omega \rightarrow 600$; $120\Omega \rightarrow 121$
- Fixed Decimal Point
- Rated Current:
 L =1000mA, M=1500mA, N=2000mA, P=2500mA
 Q=3000mA, R=4000mA, U=5000mA, W=6000mA
- Soldering: Green Parts: A—Soldering Lead-Free, B—Lead-Free for whole chip
- 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)	3225 (1210)	4516 (1806)	4532 (1812)
L	1.60 \pm 0.15	2.00 \pm 0.20	3.20 \pm 0.20	3.20 \pm 0.20	4.50 \pm 0.25	4.50 \pm 0.25
W	0.80 \pm 0.15	1.25 \pm 0.20	1.60 \pm 0.20	2.50 \pm 0.20	1.60 \pm 0.20	3.20 \pm 0.25
T	0.80 \pm 0.15	0.90 \pm 0.20	1.10 \pm 0.20	1.30 \pm 0.20	1.60 \pm 0.20	1.50 \pm 0.25
E	0.30 \pm 0.20	0.50 \pm 0.30	0.50 \pm 0.30	0.50 \pm 0.30	0.60 \pm 0.40	0.60 \pm 0.40

High Current Chip Ferrite Bead–MHC Series

► Specifications

Part Number	Impedance (Ω) +/- 25%	Test Freq. (MHz)	DCR (Ω) (Max.)	Rated Current (mA)
1608 (EIA 0603)				
MHC1608S300Q_	30	100	0.040	3000
MHC1608S600Q_	60	100	0.040	3000
MHC1608S800Q_	80	100	0.040	3000
MHC1608S121P_	120	100	0.070	2500
MHC1608S221N_	220	100	0.090	2000
MHC1608S301N_	300	100	0.090	2000
MHC1608S451M_	450	100	0.150	1500
MHC1608S601L_	600	100	0.200	1000
2012 (EIA 0805)				
MHC2012S110W_	11	100	0.015	6000
MHC2012S310W_	31	100	0.015	6000
MHC2012S400R_	40	100	0.030	4000
MHC2012S600Q_	60	100	0.040	3000
MHC2012S800U_	80	100	0.020	5000
MHC2012S900U_	90	100	0.020	5000
MHC2012S121U_	120	100	0.020	5000
MHC2012S221Q_	220	100	0.040	3000
MHC2012S251Q_	250	100	0.040	3000
MHC2012S301N_	300	100	0.090	2000
MHC2012S331N_	330	100	0.090	2000
MHC2012S601N_	600	100	0.090	2000
3216 (EIA 1206)				
MHC3216S500W_	50	100	0.015	6000
MHC3216S600Q_	60	100	0.040	3000
MHC3216S750Q_	75	100	0.040	3000
MHC3216S800R_	80	100	0.030	4000
MHC3216S900Q_	90	100	0.040	3000
MHC3216S121W_	120	100	0.015	6000
MHC3216S151N_	150	100	0.090	2000
MHC3216S501P_	500	100	0.070	2500
MHC3216S601P_	600	100	0.070	2500
MHC3216S122L_	1200	100	0.200	1000
3225 (EIA 1210)				
MHC3225S600M_	60	100	0.150	1500
MHC3225S102N_	1000	50	0.090	2000
4516 (EIA 1806)				
MHC4516S600W_	60	100	0.015	6000
MHC4516S800W_	80	100	0.015	6000
MHC4516S471N_	470	100	0.090	2000
MHC4516S851M_	850	100	0.150	1500
4532 (EIA 1812)				
MHC4532S800W_	80	100	0.015	6000
MHC4532S121W_	120	100	0.015	6000
MHC4532S151W_	150	100	0.015	6000
MHC4532S601Q_	600	50	0.040	3000
MHC4532S681Q_	680	50	0.040	3000
MHC4532S132Q_	1300	60	0.040	3000

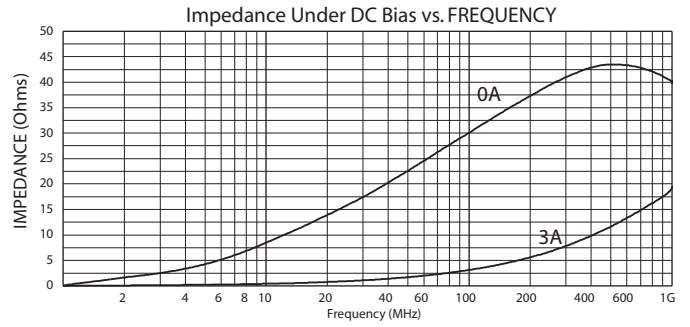
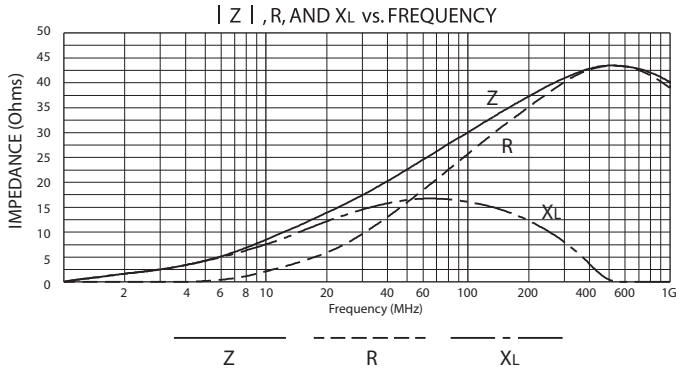
High Current Chip Ferrite Bead-MHC Series

General Technical Data

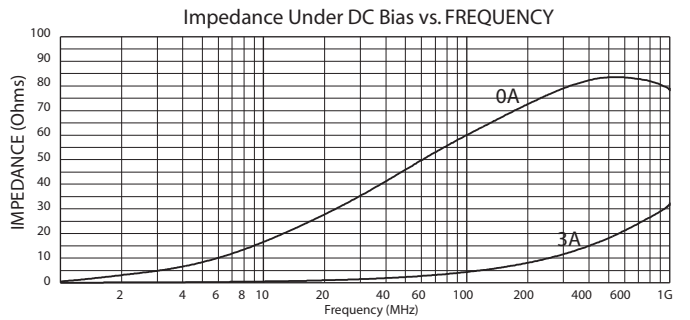
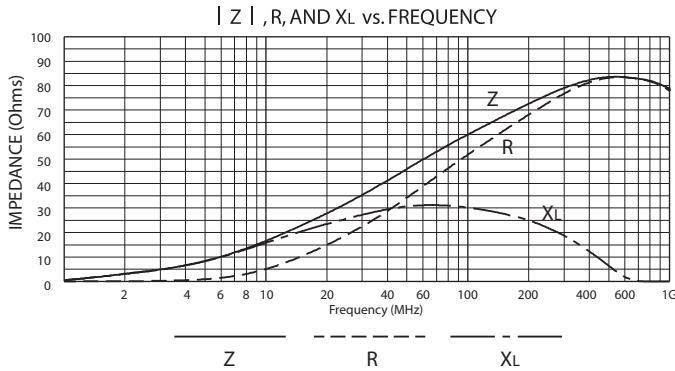
Operating temperature range	-55°C ~ +125°C
Storage condition	-40°C ~ +85°C, 70% RH Max
Soldering method	Reflow or Wave Soldering

Impedance vs. Frequency

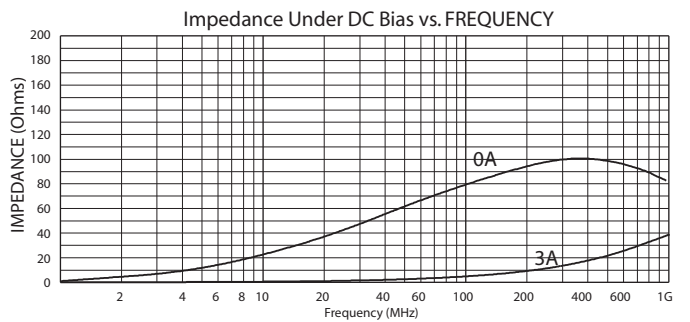
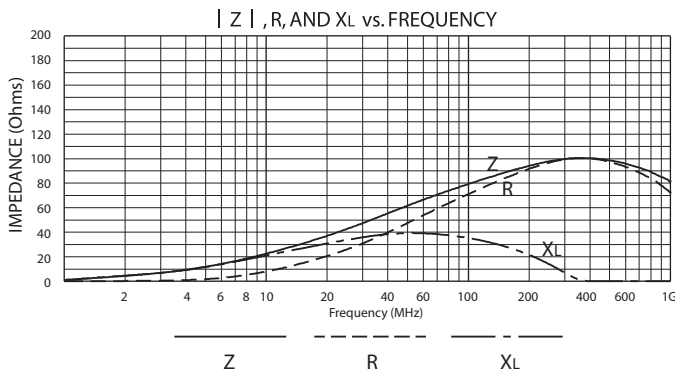
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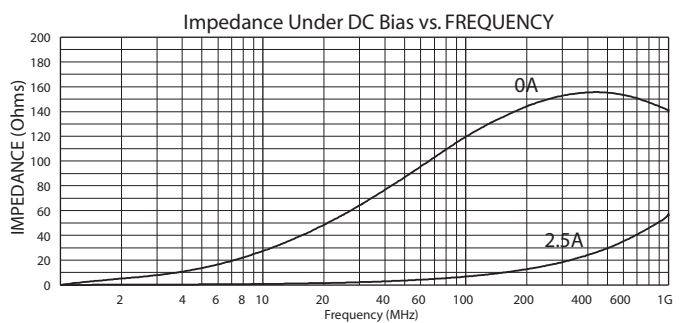
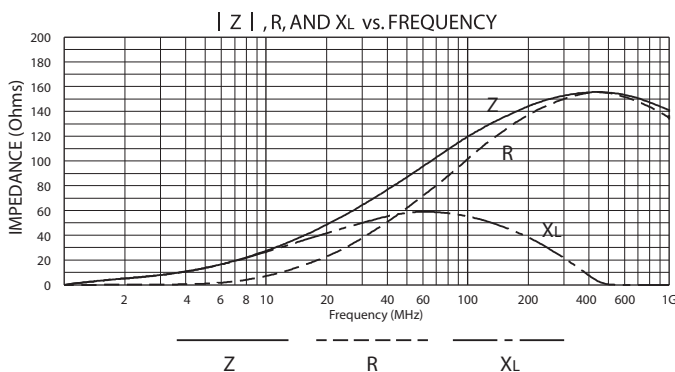
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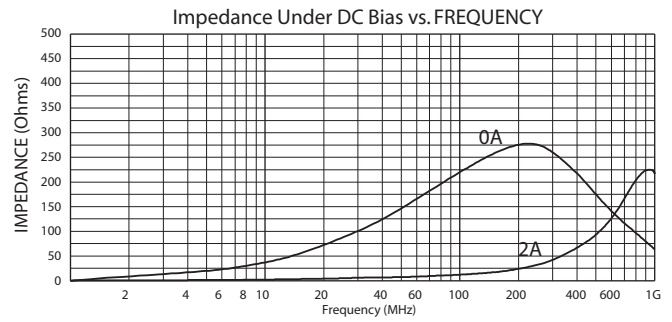
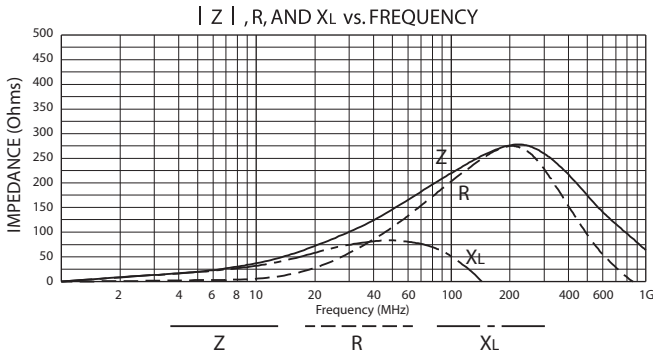


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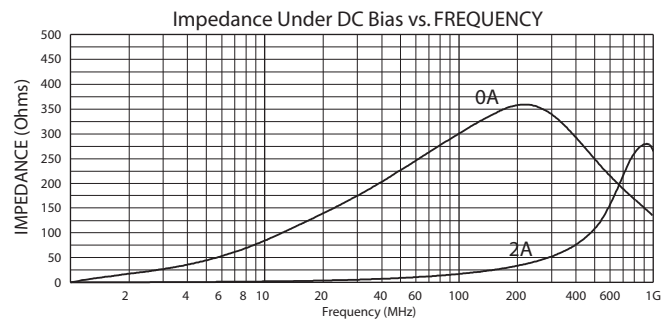
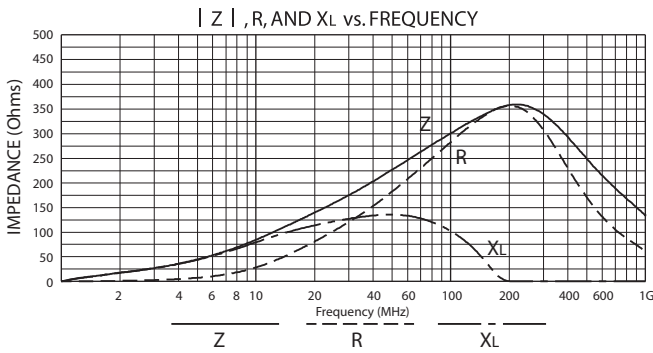


High Current Chip Ferrite Bead-MHC Series

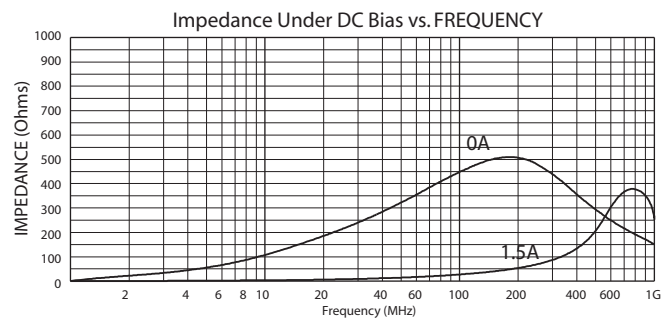
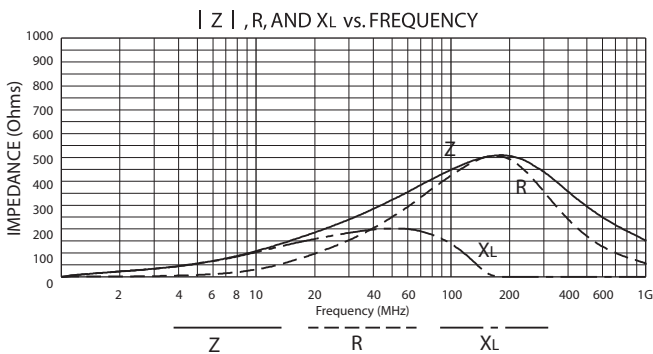
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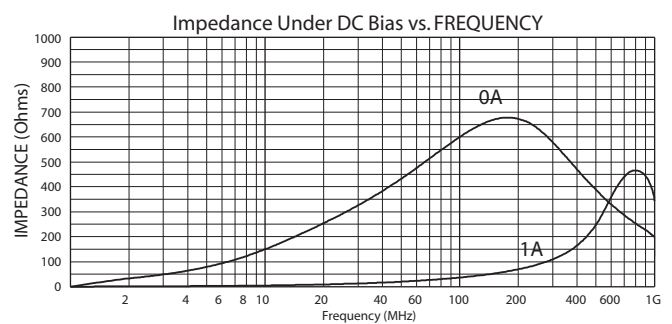
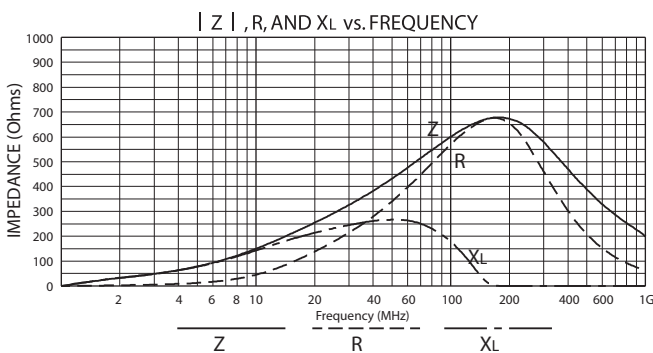
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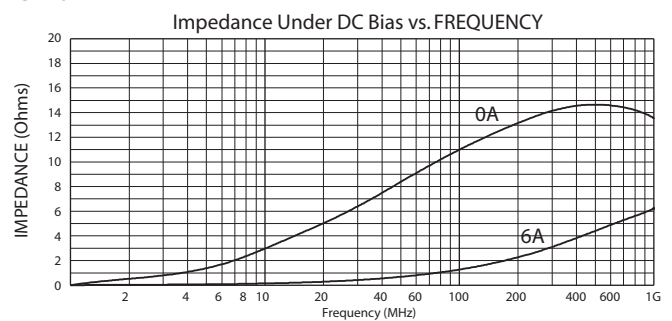
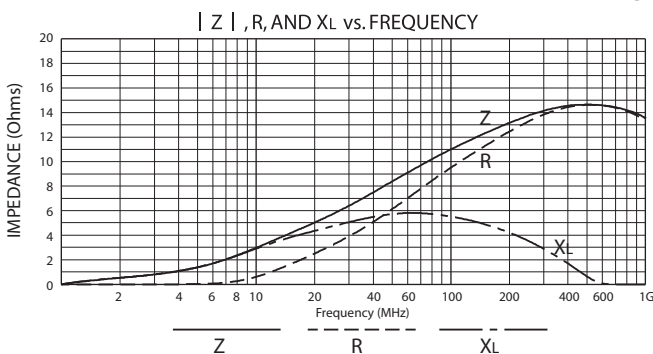
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MHC1608S601L

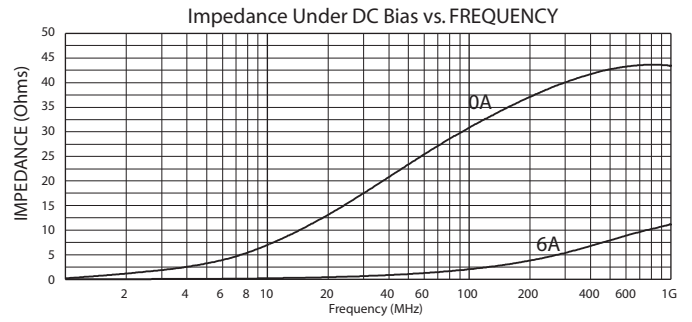
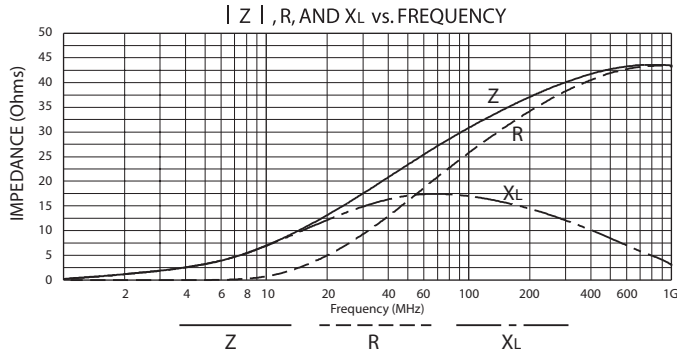


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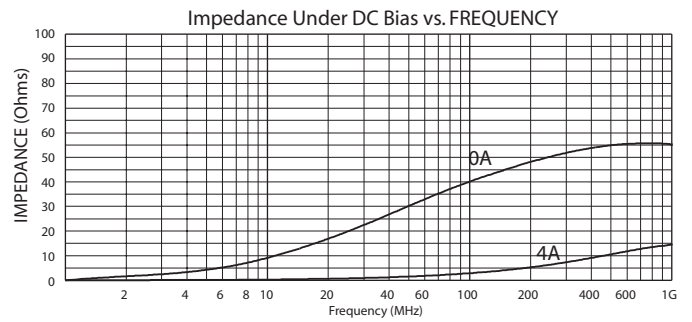
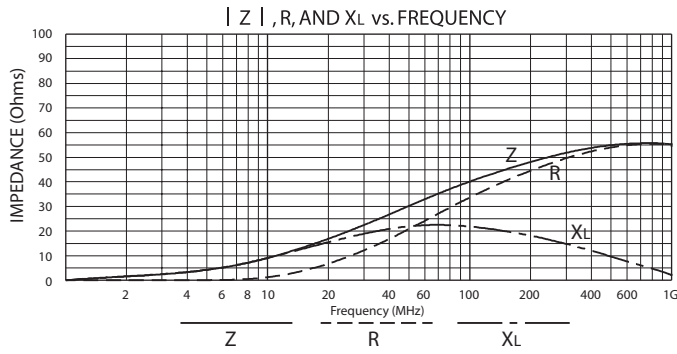


High Current Chip Ferrite Bead-MHC Series

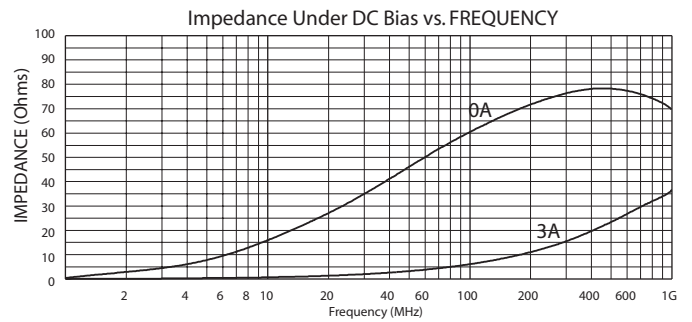
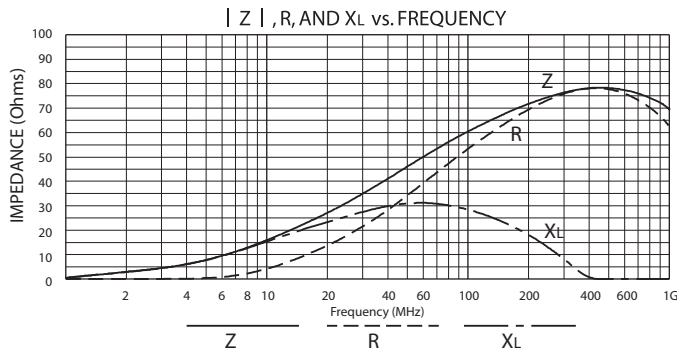
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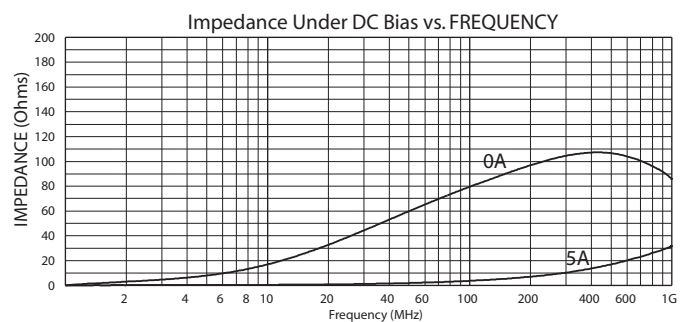
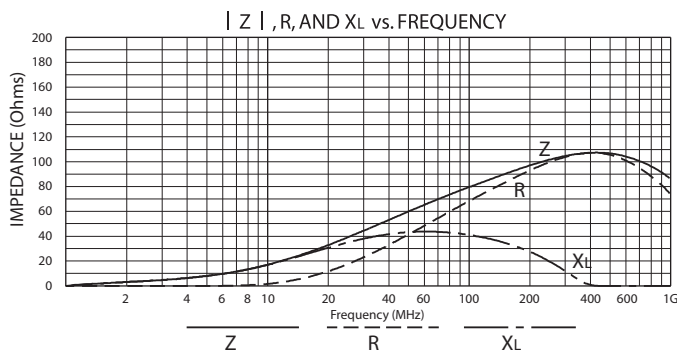
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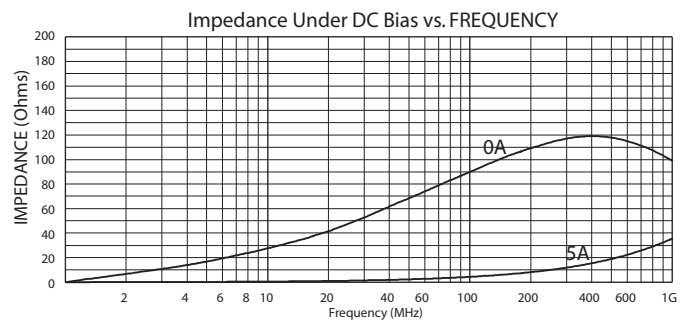
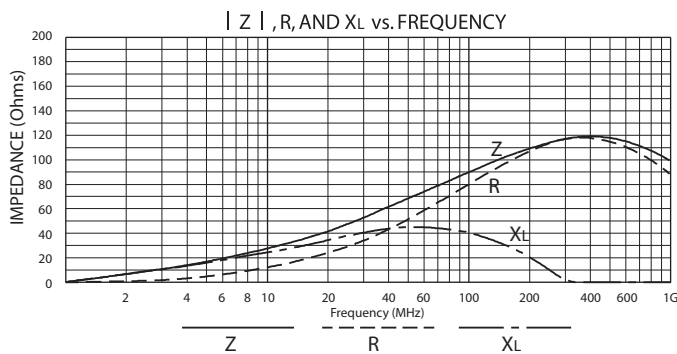
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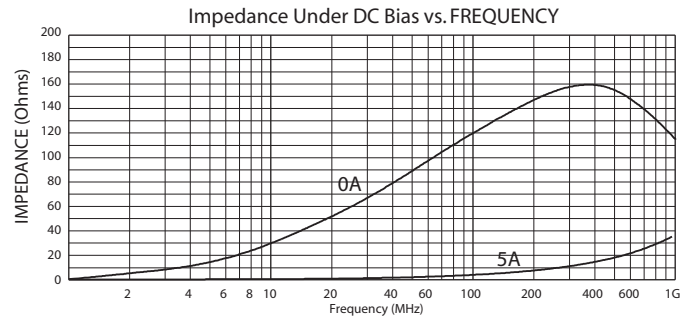
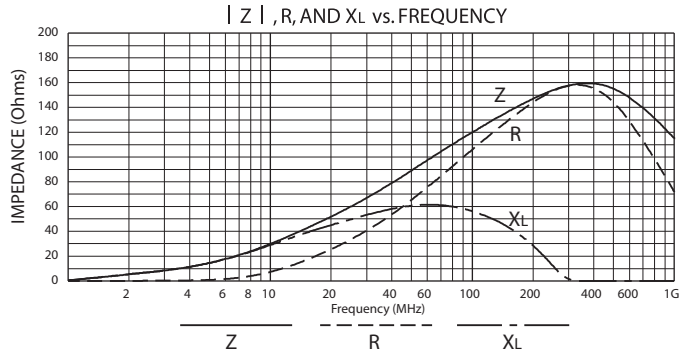


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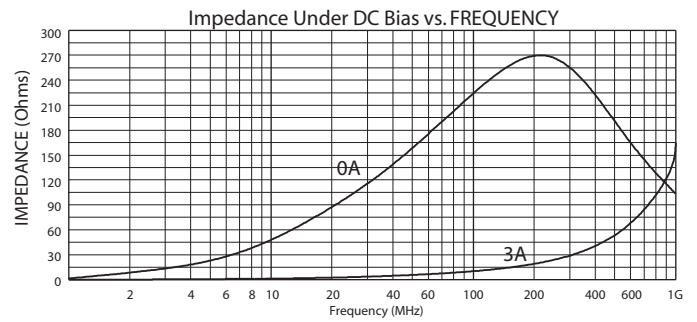
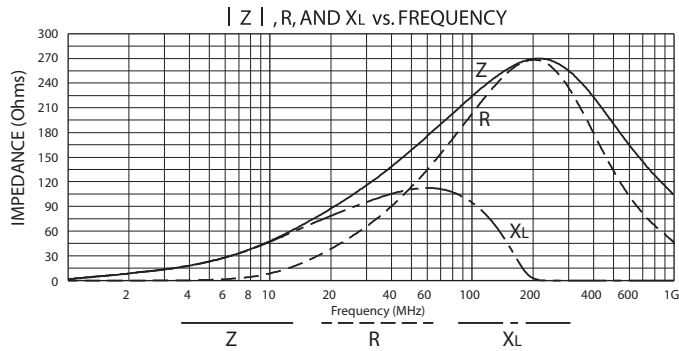


High Current Chip Ferrite Bead-MHC Series

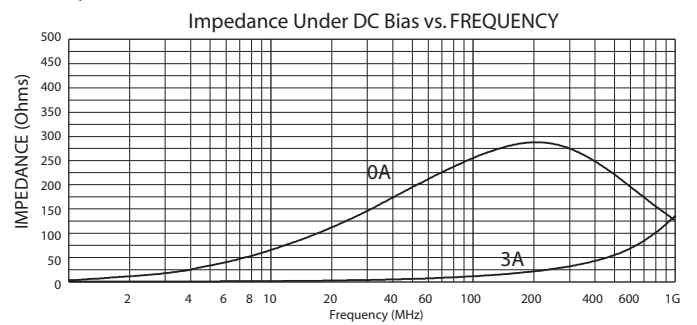
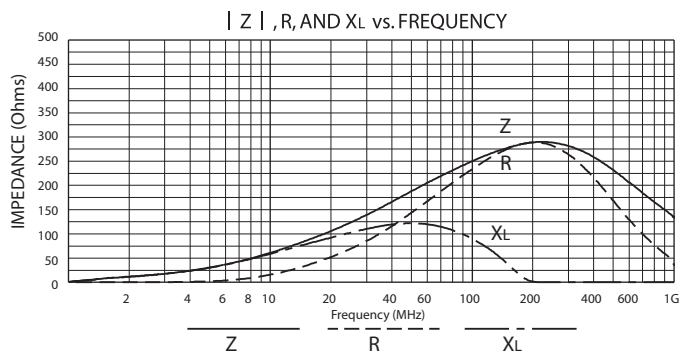
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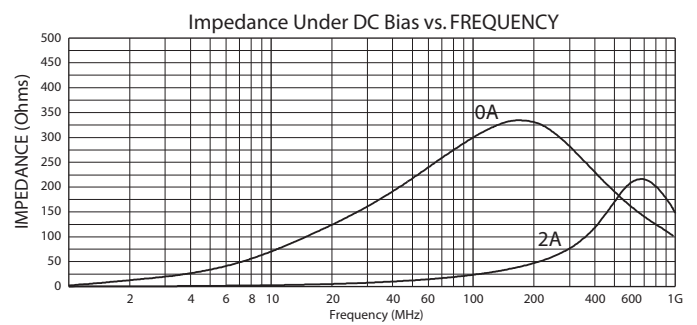
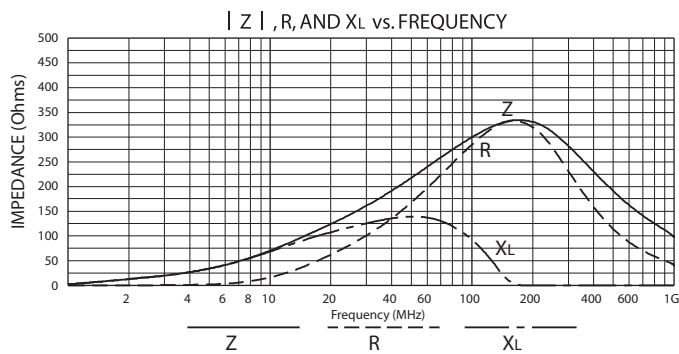
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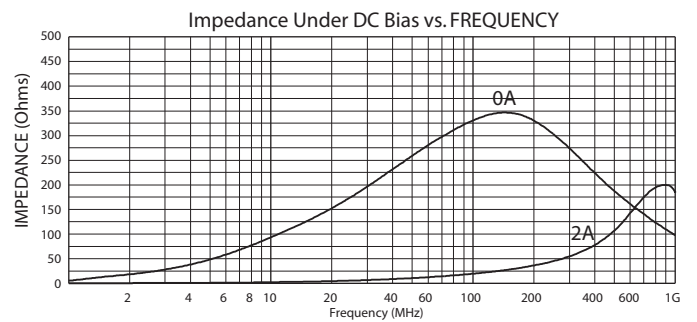
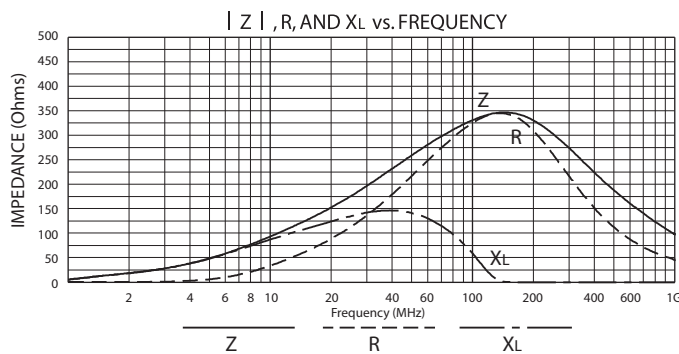
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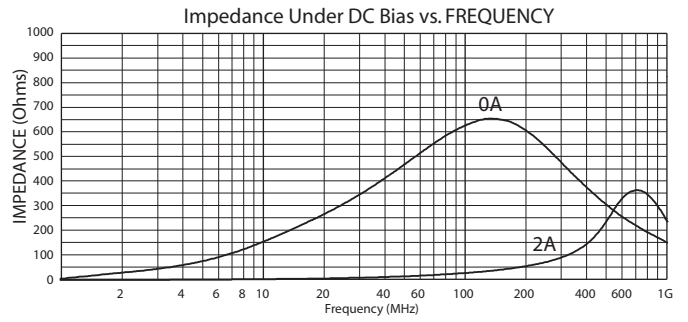
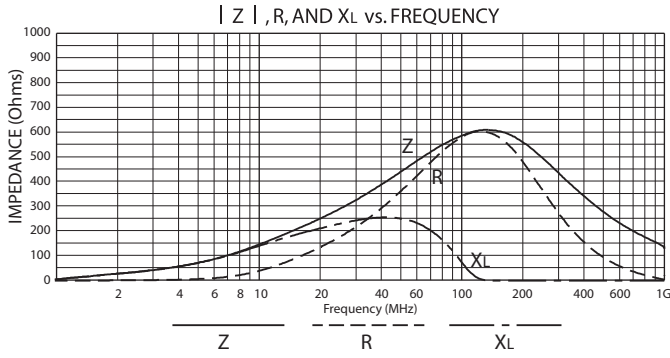


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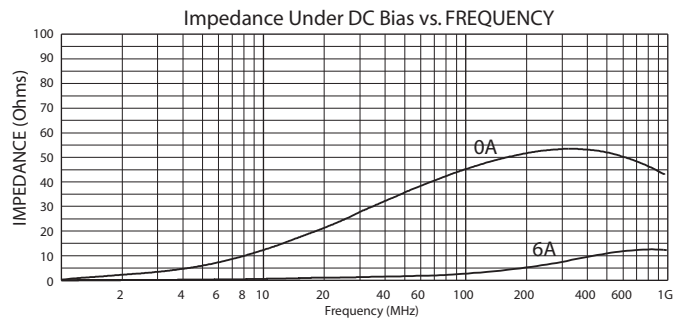
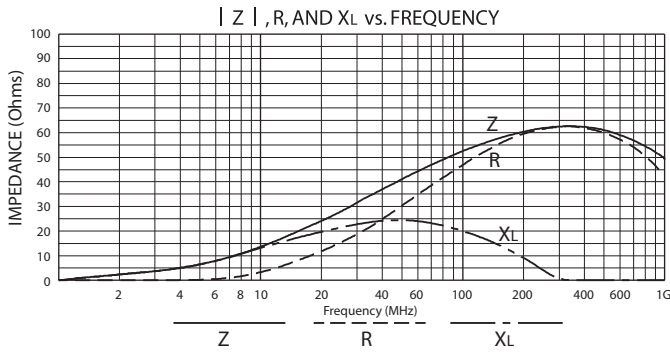


High Current Chip Ferrite Bead-MHC Series

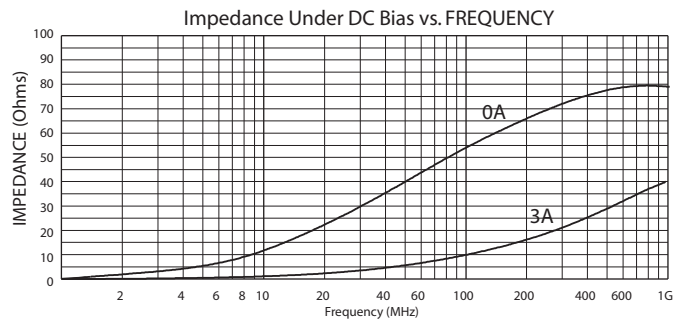
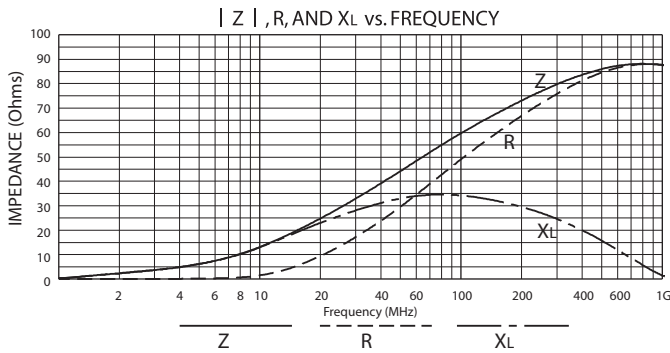
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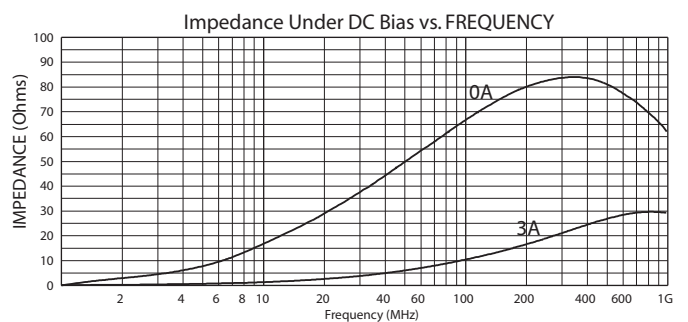
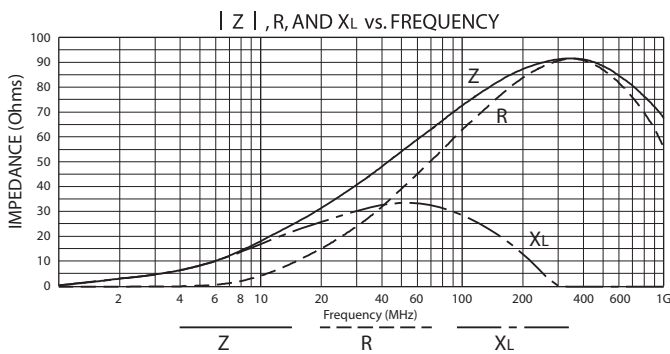
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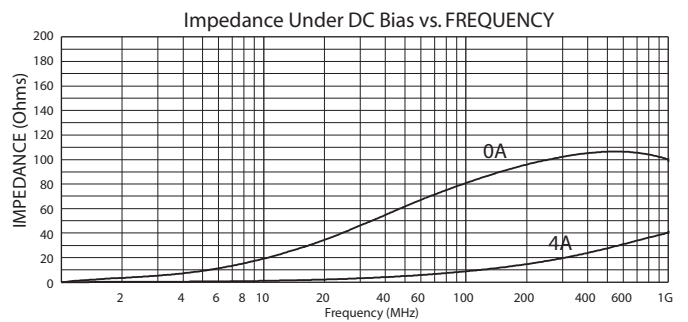
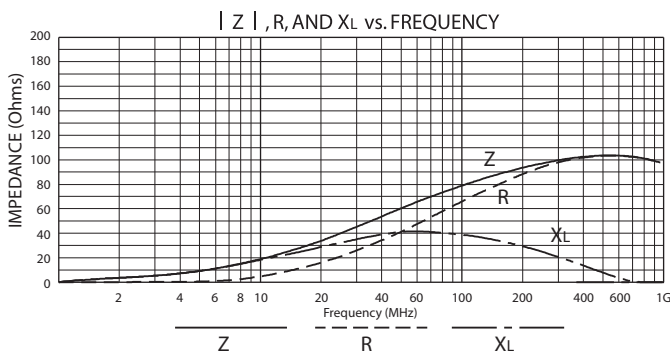
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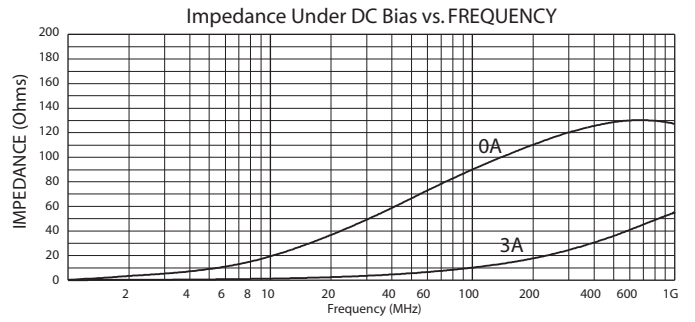
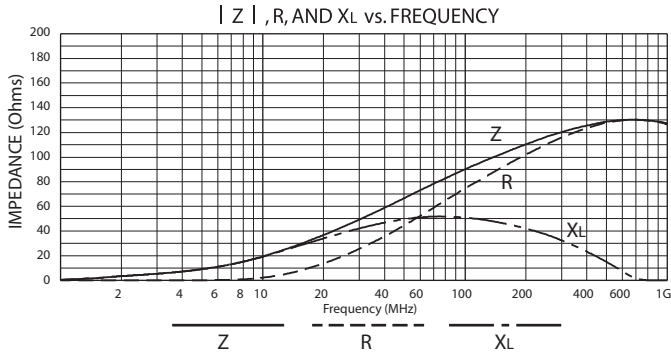


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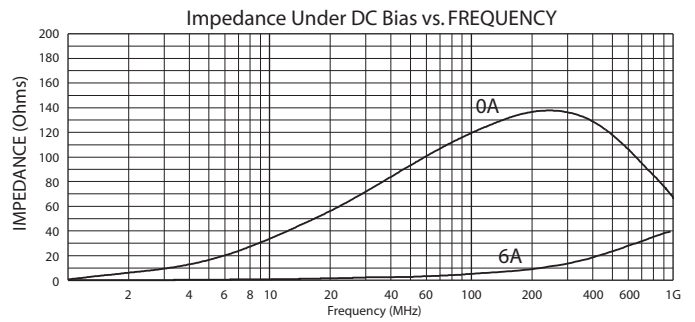
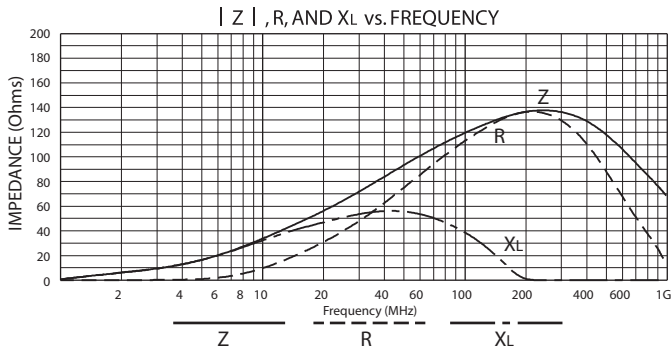


High Current Chip Ferrite Bead-MHC Series

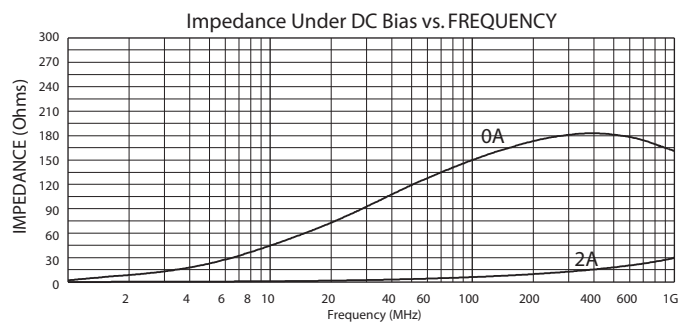
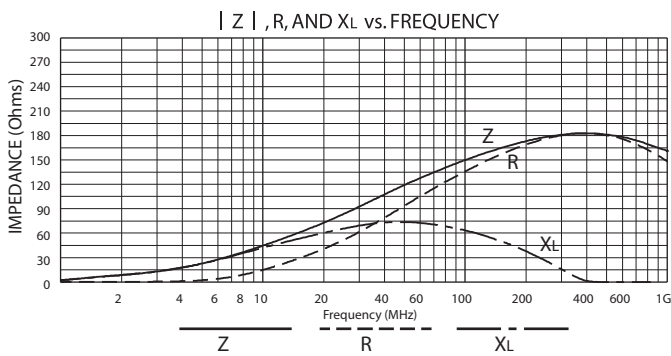
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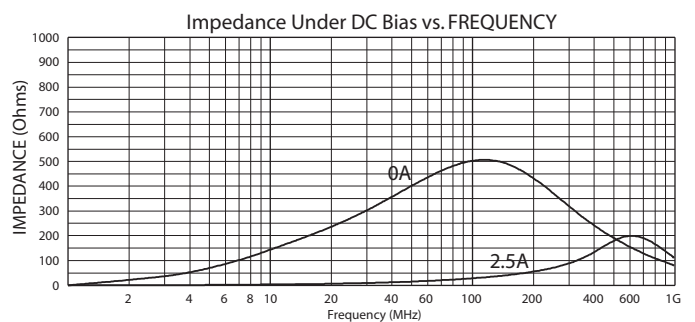
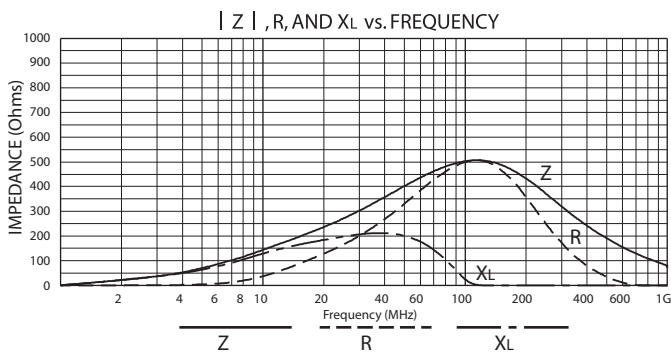
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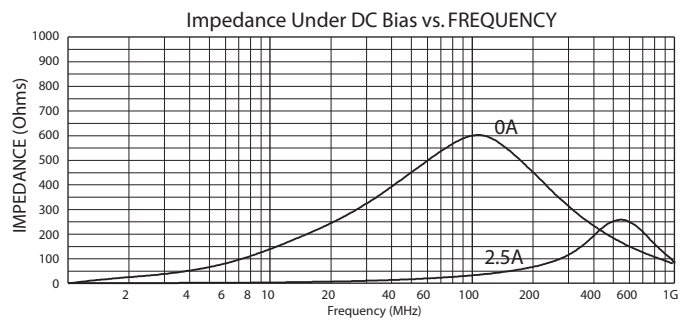
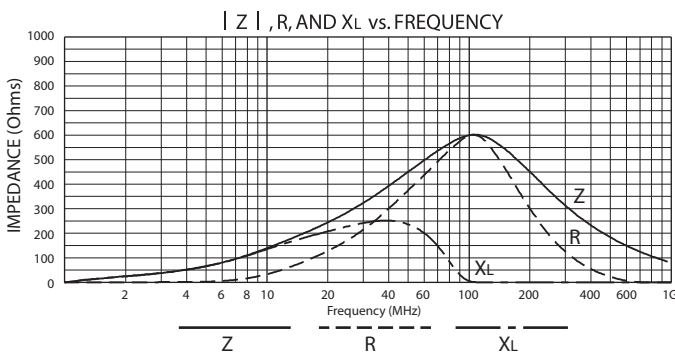
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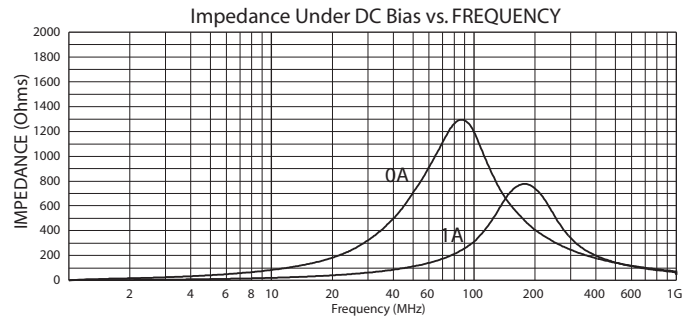
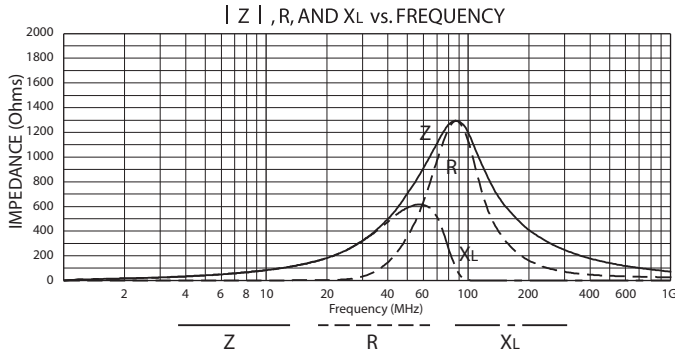


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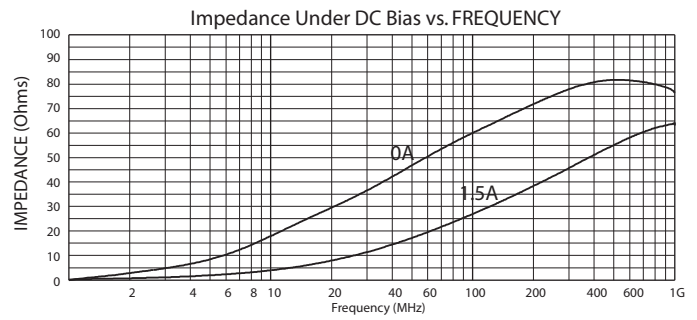
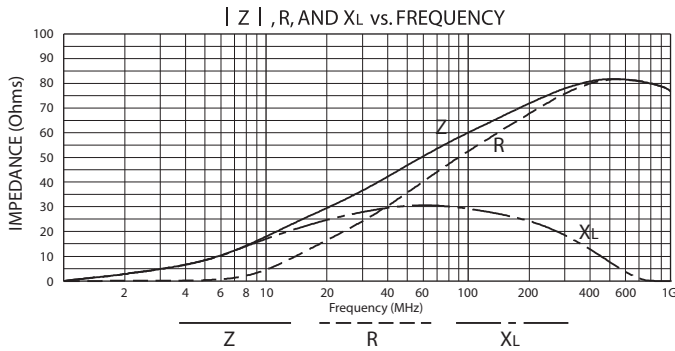


High Current Chip Ferrite Bead-MHC Series

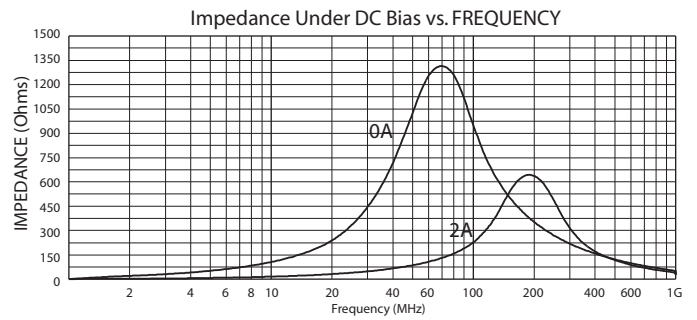
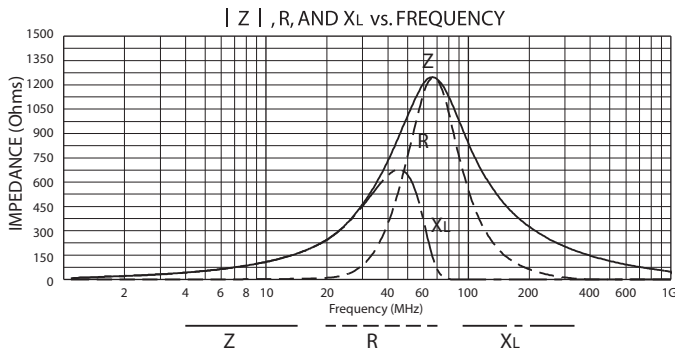
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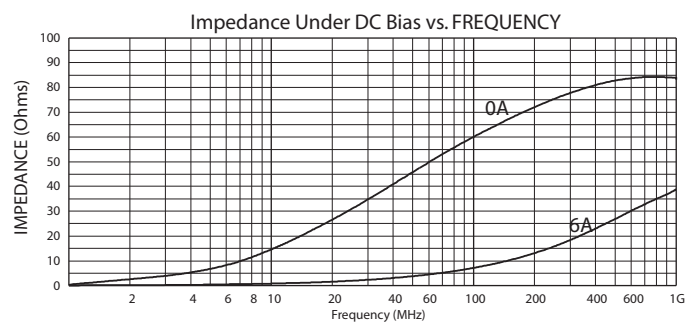
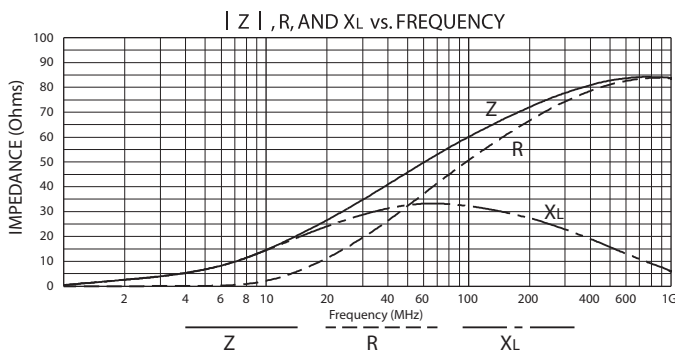
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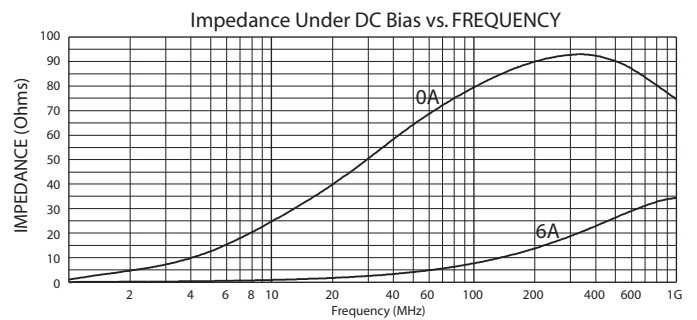
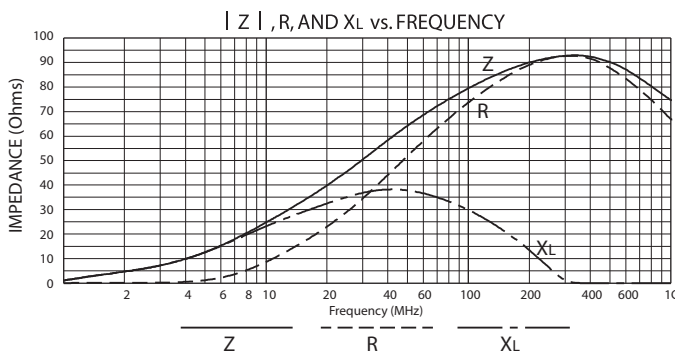
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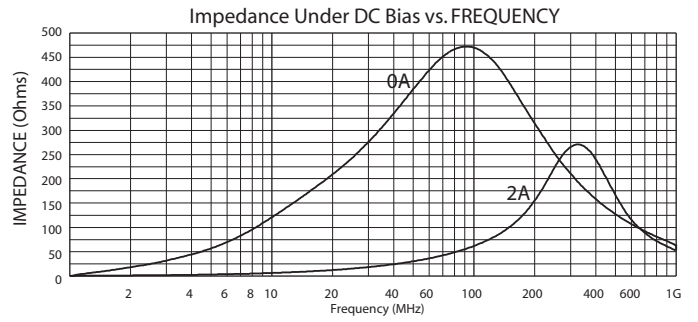
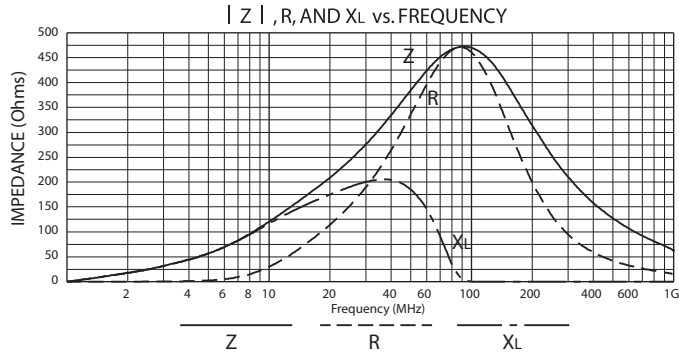


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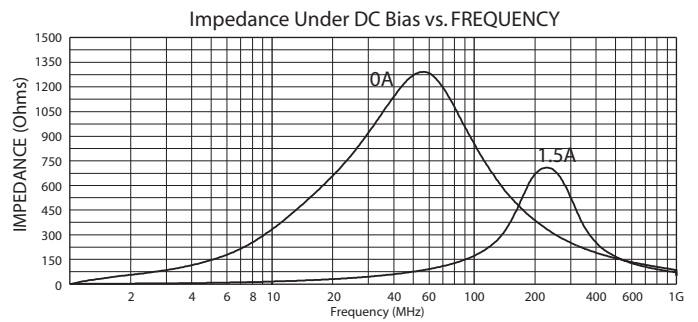
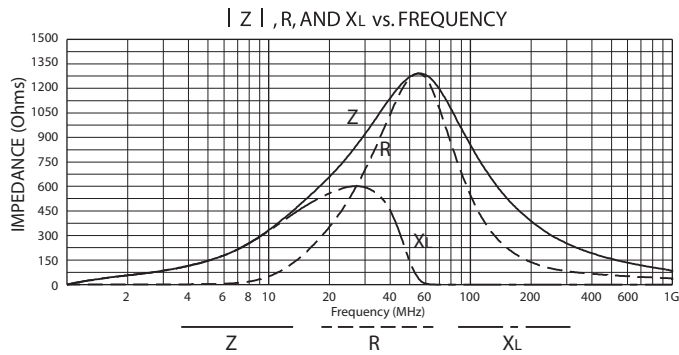


High Current Chip Ferrite Bead-MHC Series

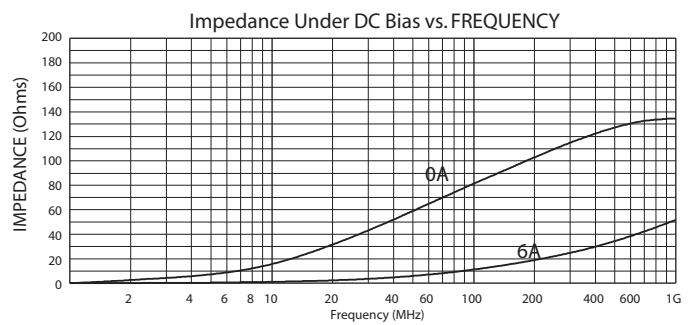
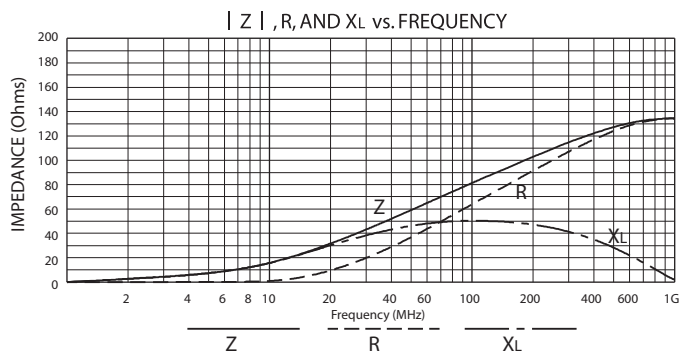
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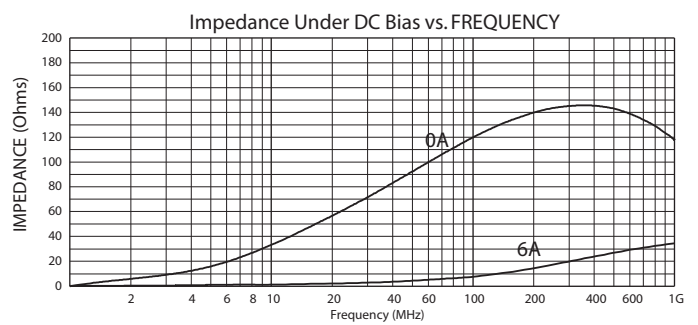
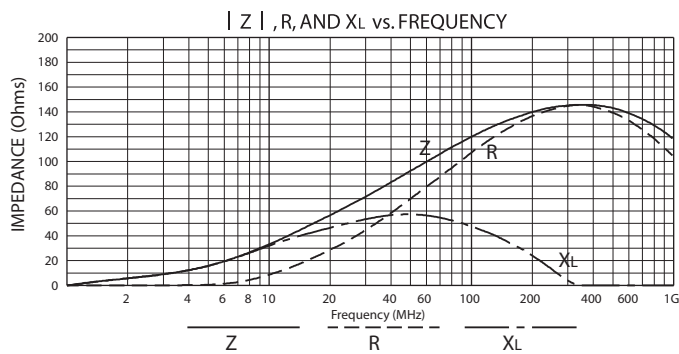
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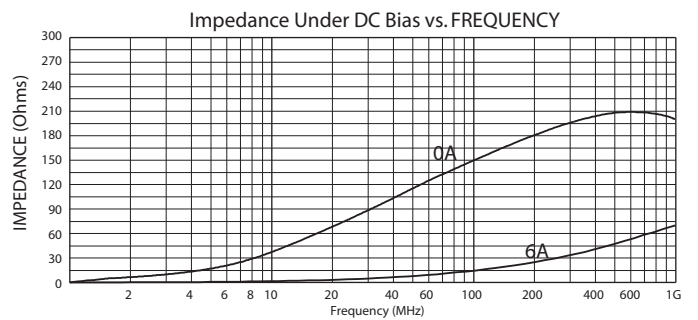
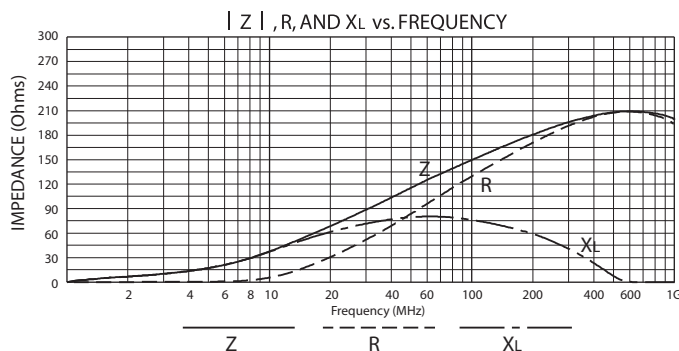
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MHC4532S121W

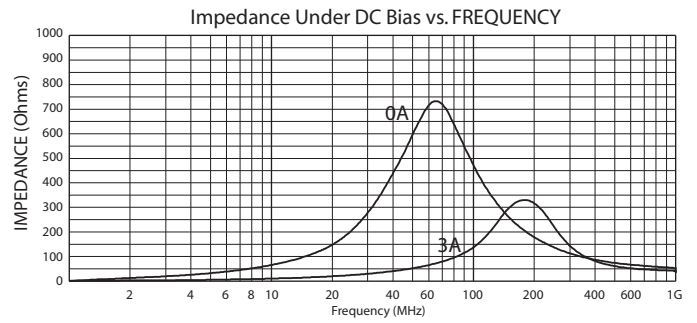
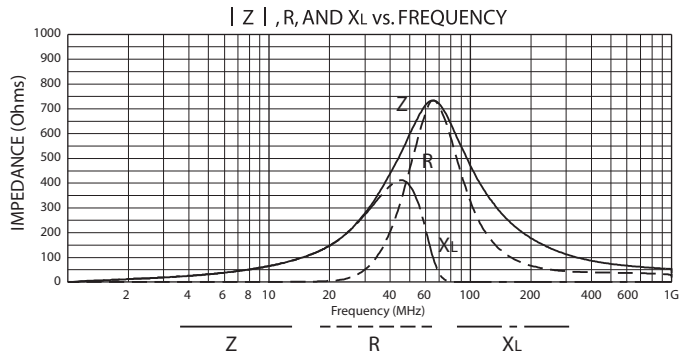


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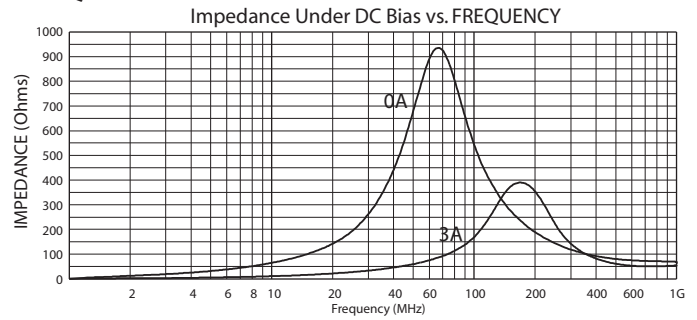
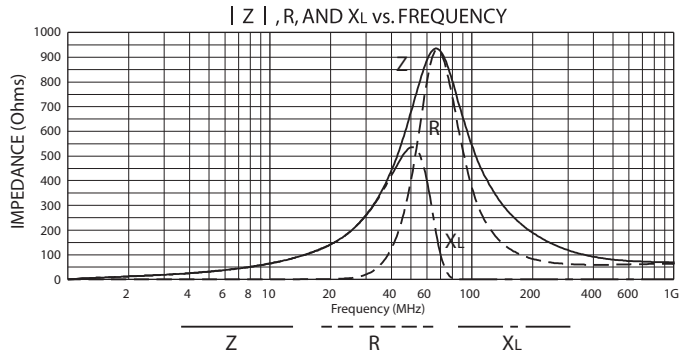


High Current Chip Ferrite Bead-MHC Series

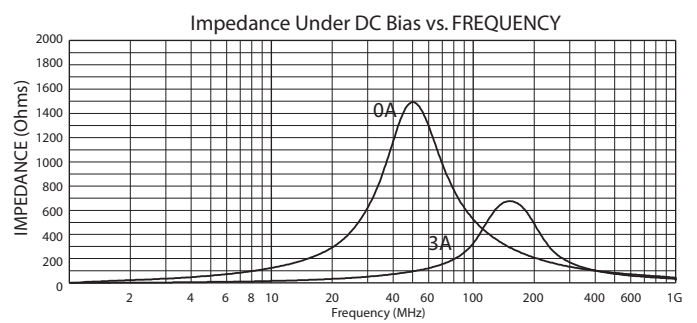
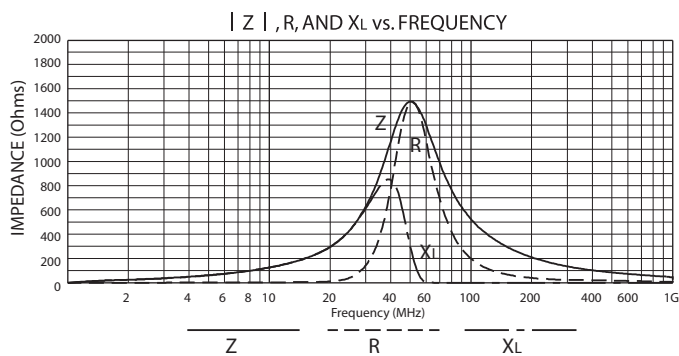
MHC4532S601Q



MHC4532S681Q



MHC4532S132Q



Package

Standard packing quantity

Size (EIA)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4516 (1806)	4532 (1812)
Quantity (pcs/reel)	4,000	4,000	3,000	2,000	2,000	1,000