

High Current Chip Ferrite Bead RoHS



MHC Series

■ Features

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

■ Applications

1. High current DC power lines.
2. Circuits where a stable ground in unavailable.

■ Part Number

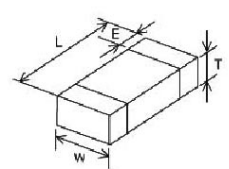
MCB 1608 S 12 1 P A
 (1) (2) (3) (4) (5)(6) (7)

- (1) Series type : High Current Chip Ferrite Bead
- (2) Size(mm) : Length x Width
- (3) Product Characteristics :
S=For Standard Application

- (4) Impedance (Ω)/ $\pm 25\%$:]ex: 60 Ω →600; 120 Ω →121
- (5) Fixed Decimal Point
- (6) Rated Current :
L =1000mA, M=1500mA, N=2000mA, P=2500mA
Q=3000mA, R=4000mA, U=5000mA, W=6000mA

- (7) Green Parts: A — Soldering Lead-Free,
B — Parts Lead-Free

■ Dimensions



Size(EIA)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4516 (1806)	4532 (1812)
L	1.60±0.15	2.00±0.20	3.20±0.20	3.20±0.20	4.50±0.25	4.50±0.25
W	0.80±0.15	1.25±0.20	1.60±0.20	2.50±0.20	1.60±0.20	3.20±0.25
T	0.80±0.15	0.90±0.20	1.10±0.20	1.30±0.20	1.60±0.20	1.50±0.25
E	0.30±0.20	0.50±0.30	0.50±0.30	0.50±0.30	0.60±0.40	0.60±0.40

() means EIA size spec Unit: mm

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■ Specifications

Part No.	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

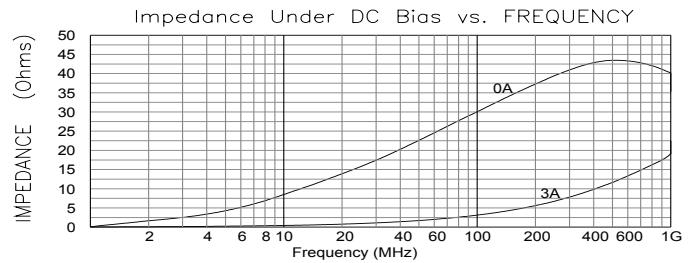
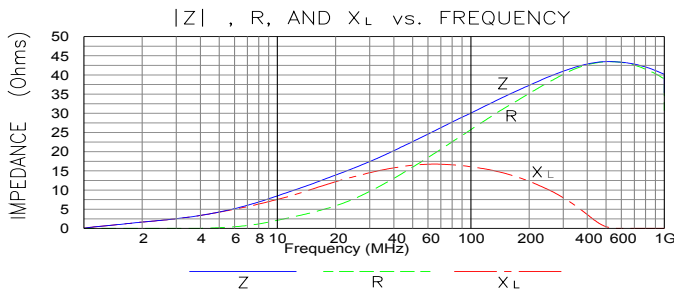
MHC Series

General technical data

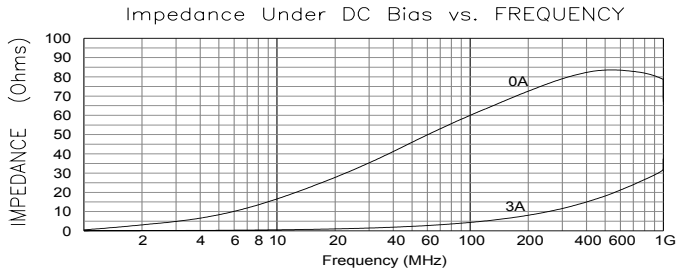
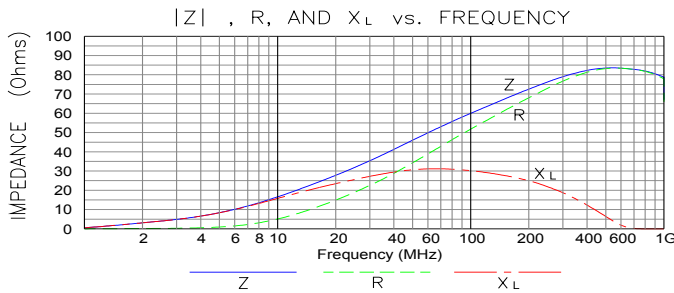
Operating temperature range	-55 °C ~ +125 °C
Storage temperature	-40 °C ~ +85 °C , 70% RH Max
Soldering method	Reflow or Wave Soldering

Impedance vs. Frequency

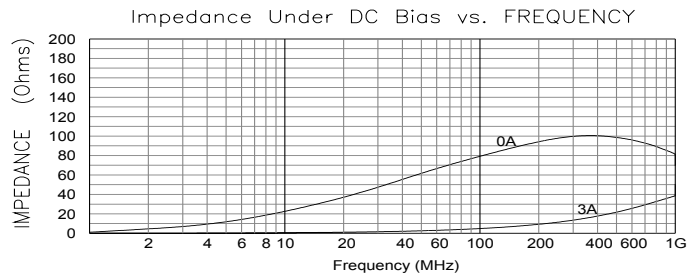
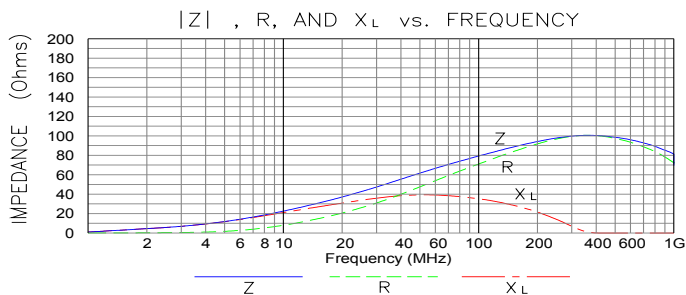
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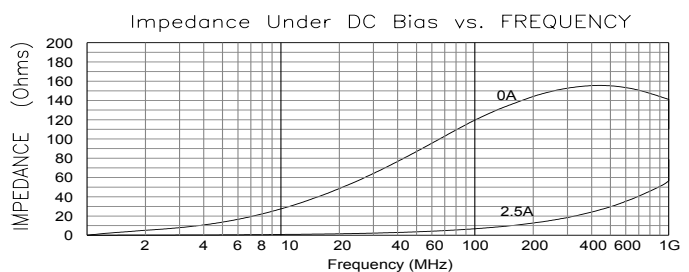
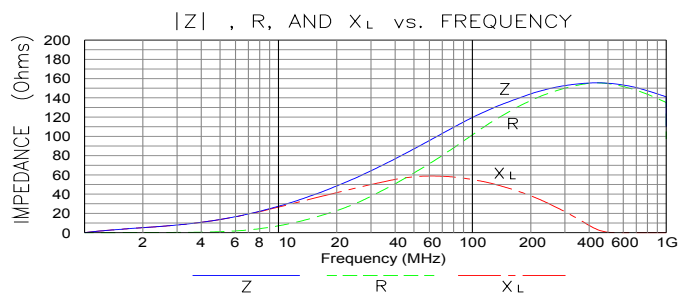
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MHC1608S800Q



MHC1608S121P

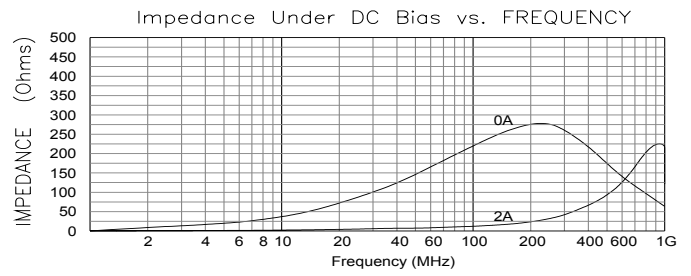
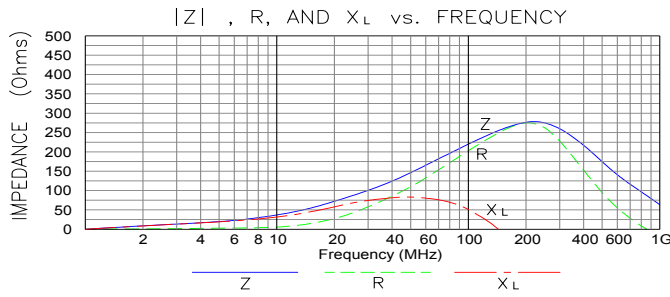


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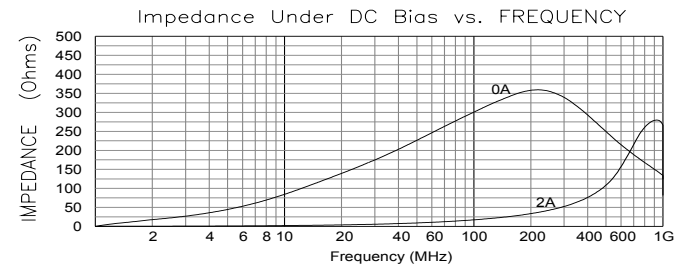
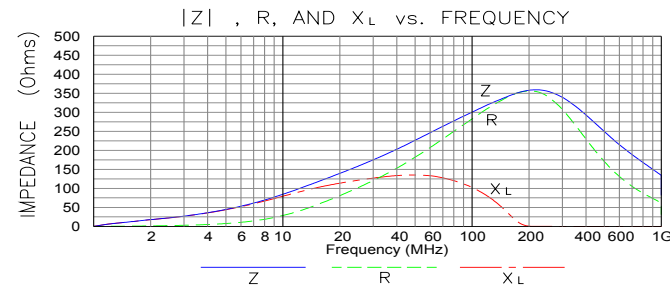


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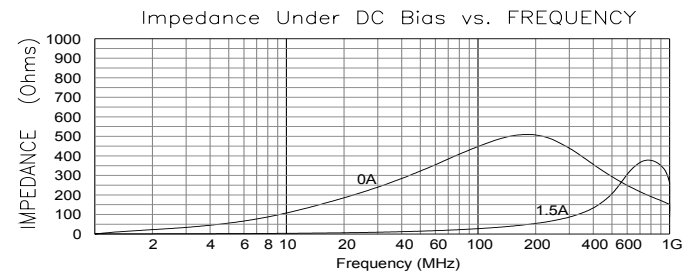
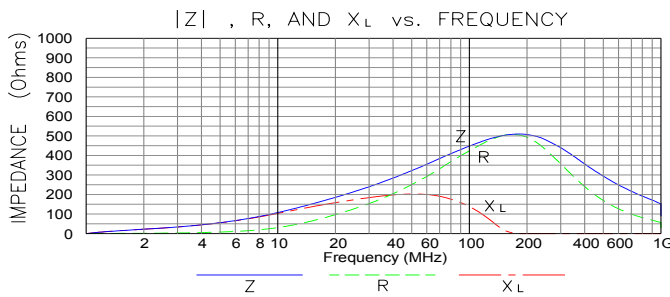
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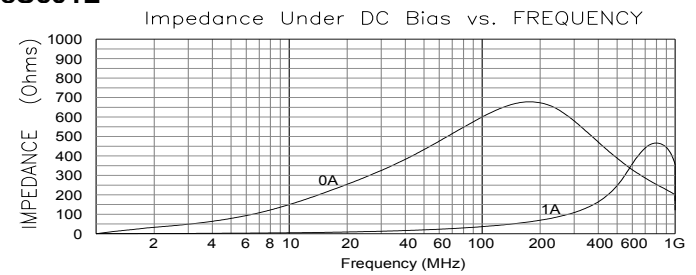
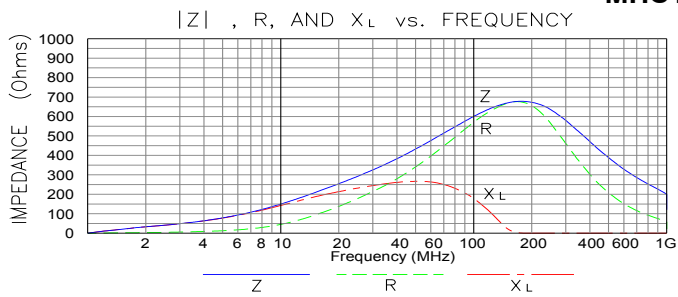
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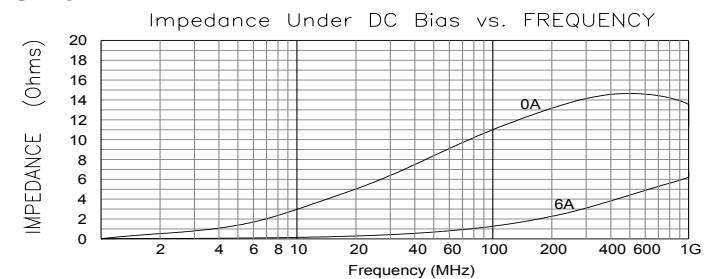
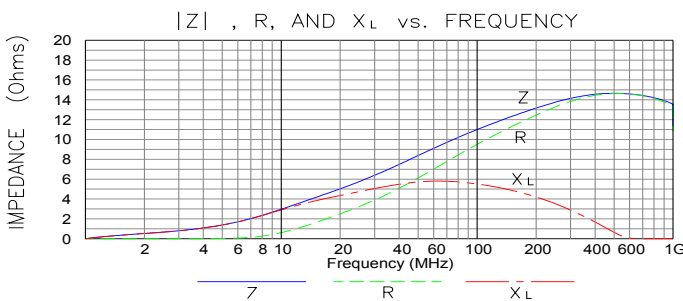
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MHC1608S601L



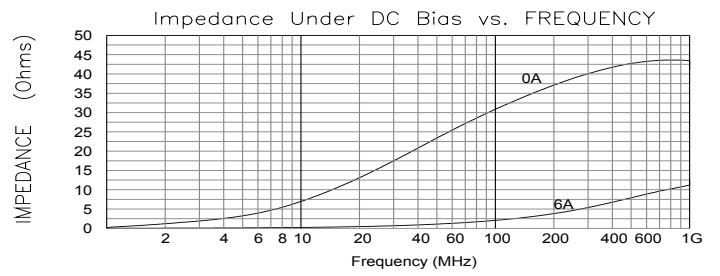
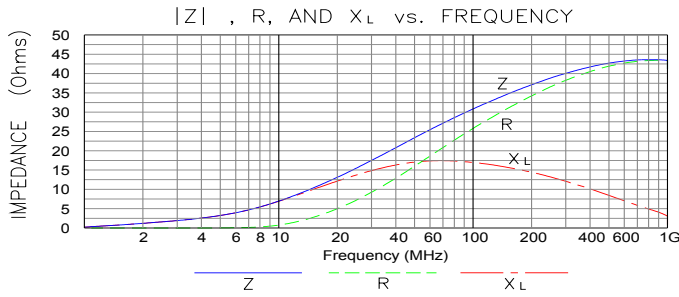
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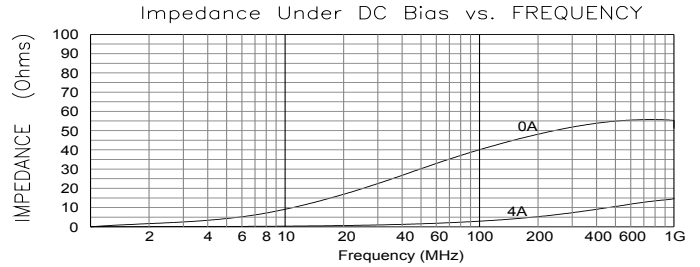
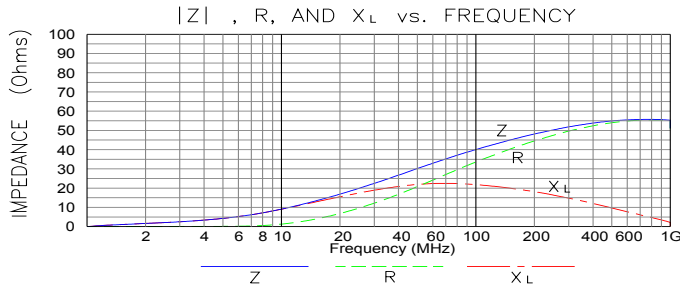
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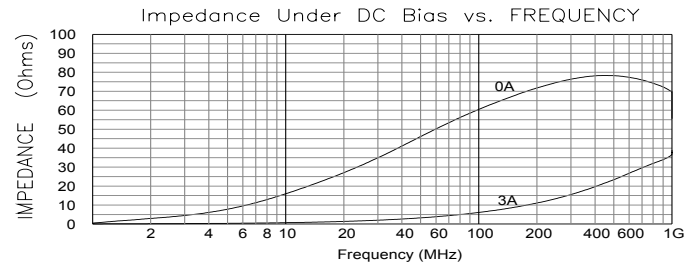
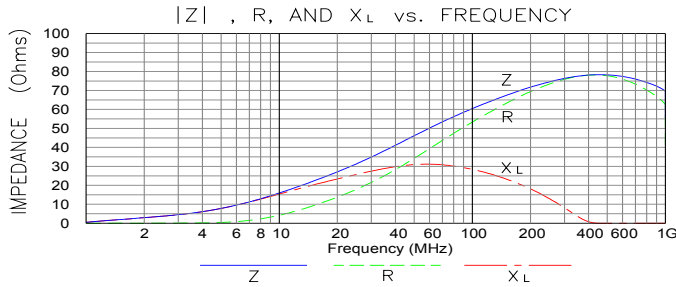
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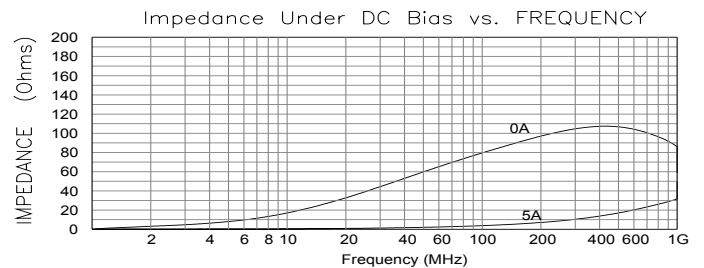
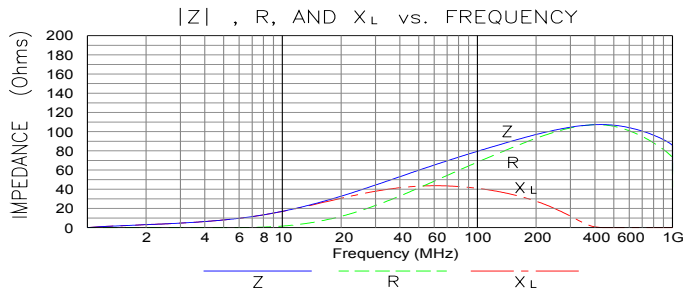
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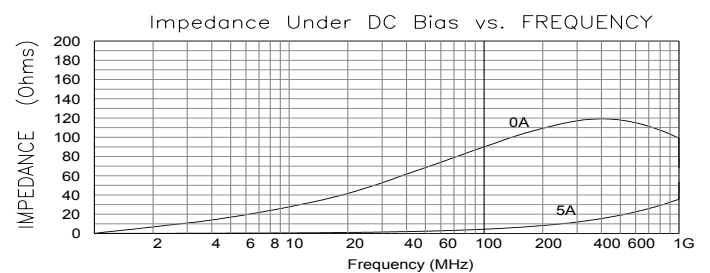
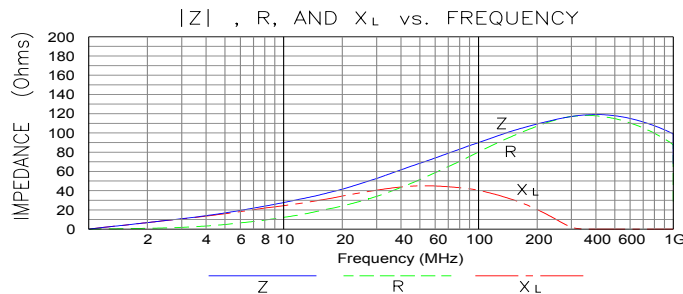
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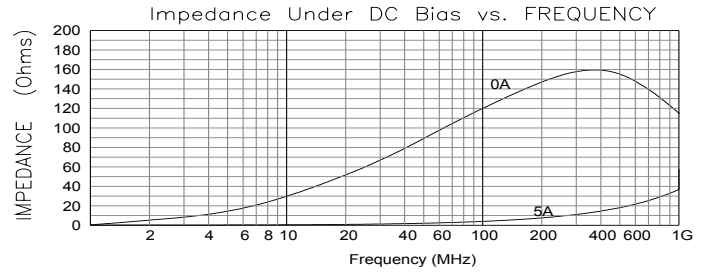
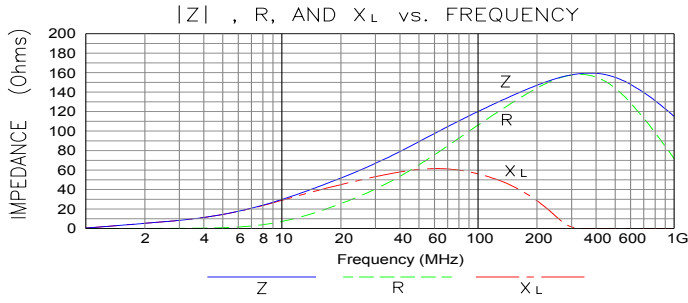
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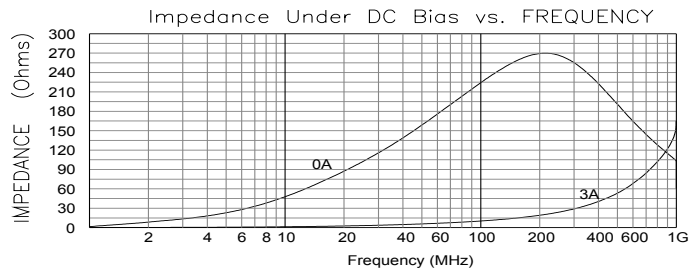
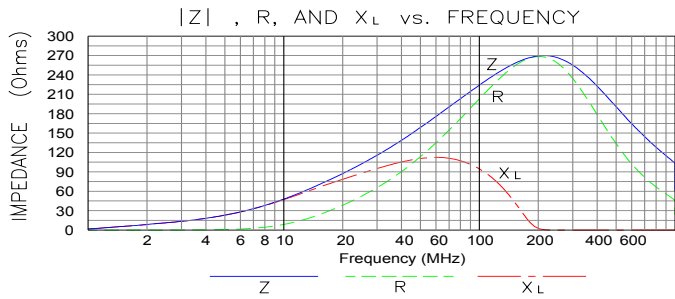
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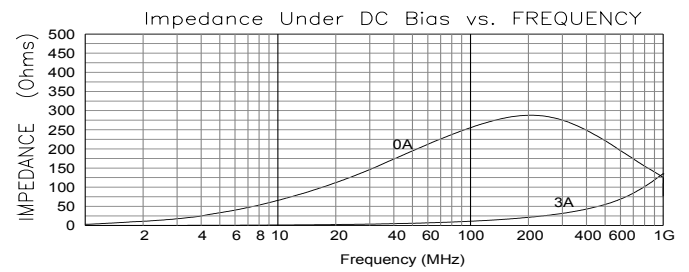
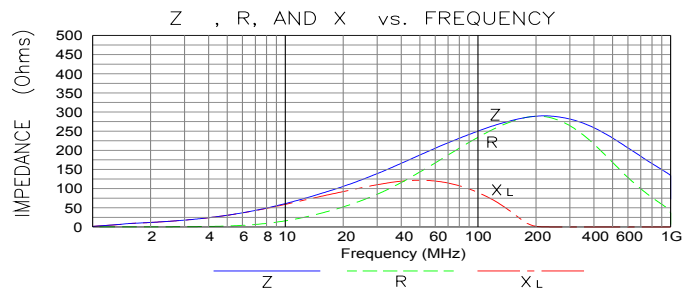
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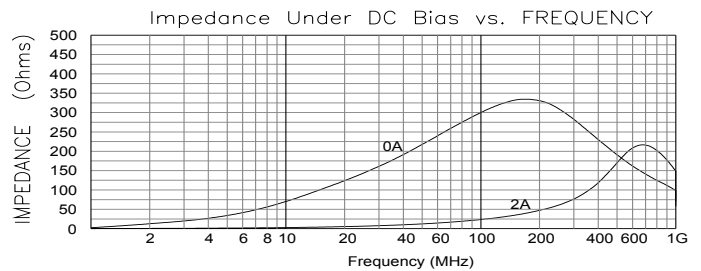
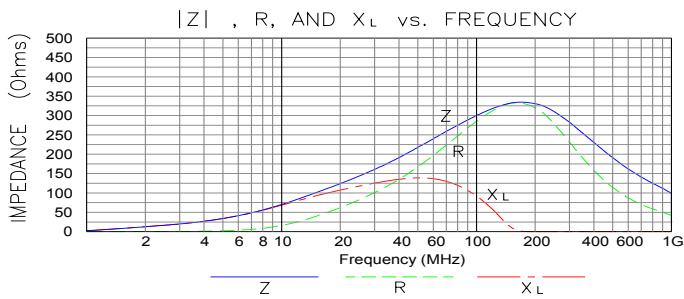
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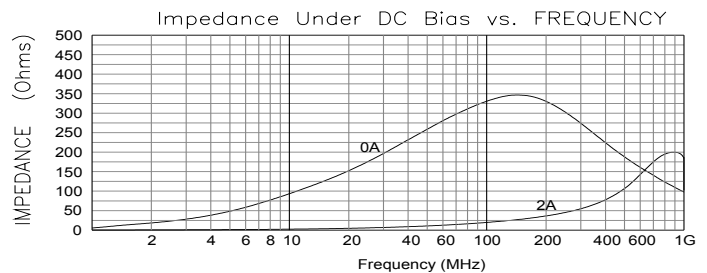
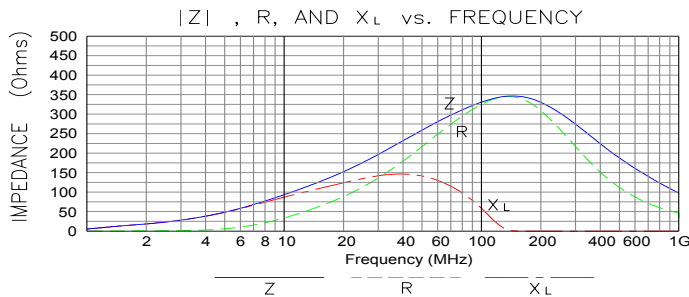
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MHC2012S301N



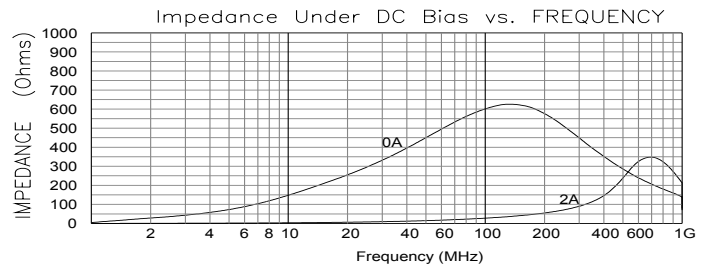
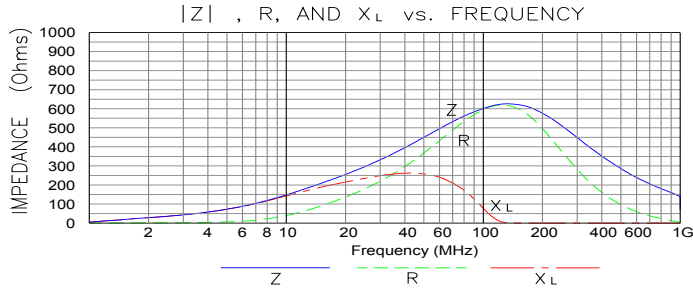
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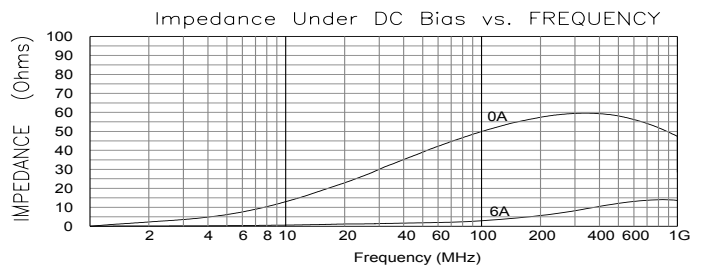
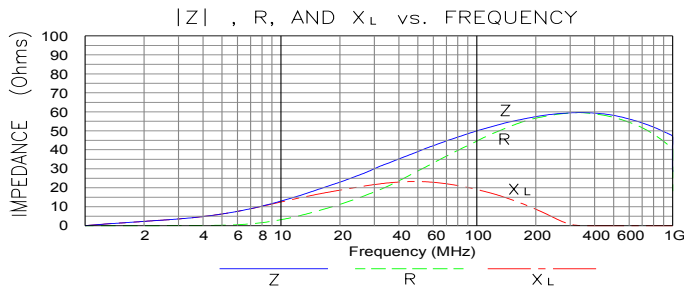
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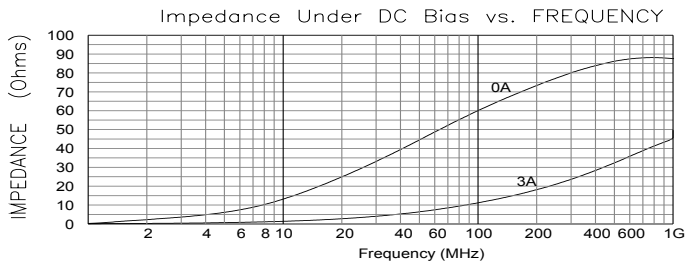
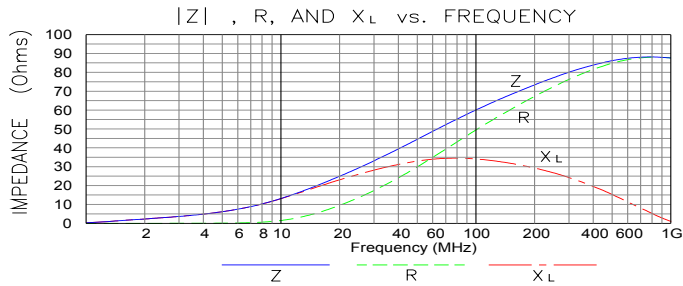
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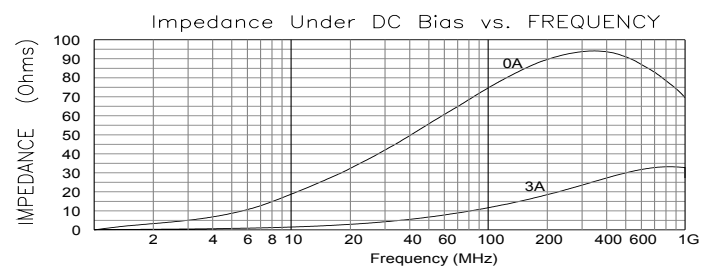
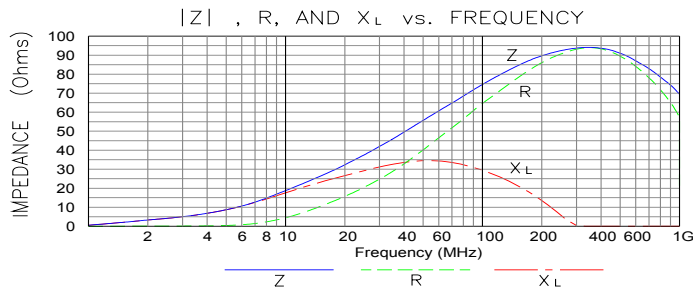
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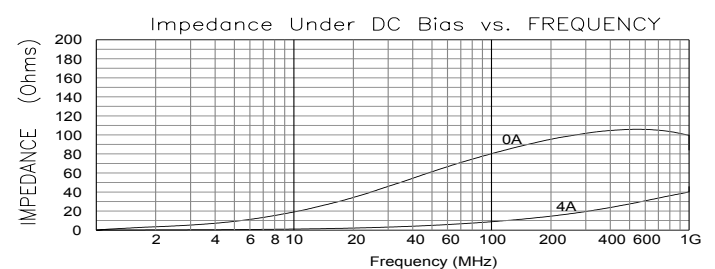
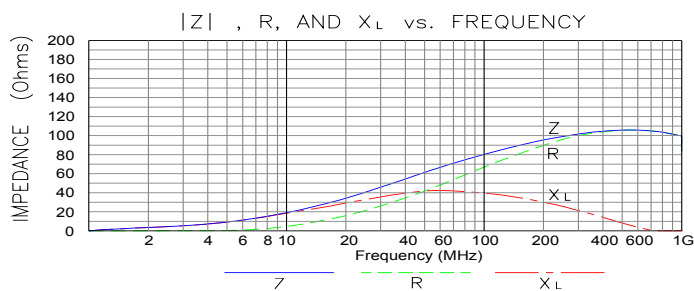
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MHC3216S750Q



MHC3216S800R

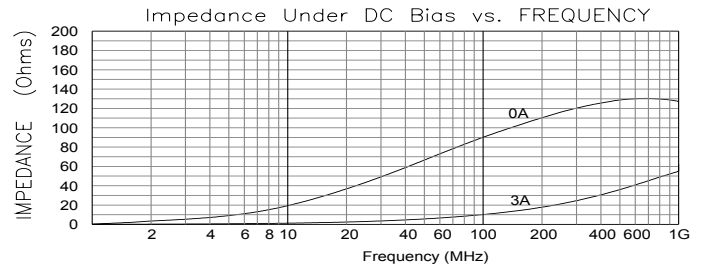
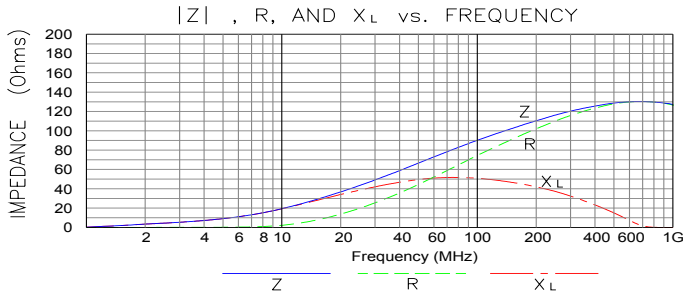


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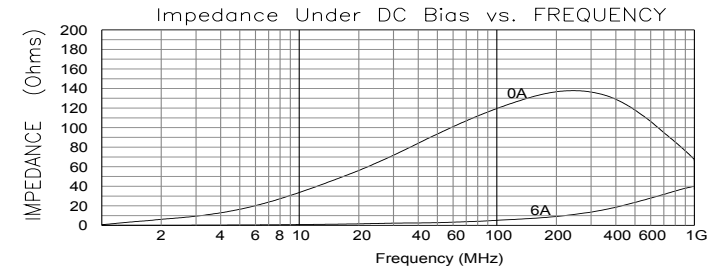
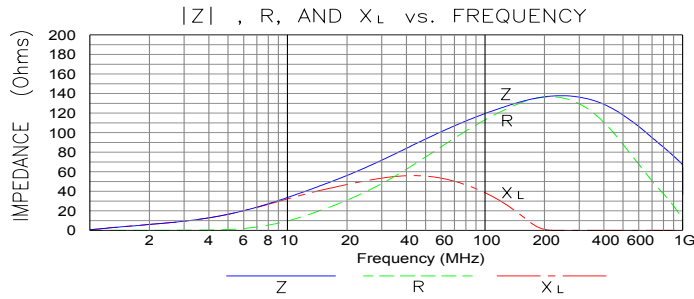


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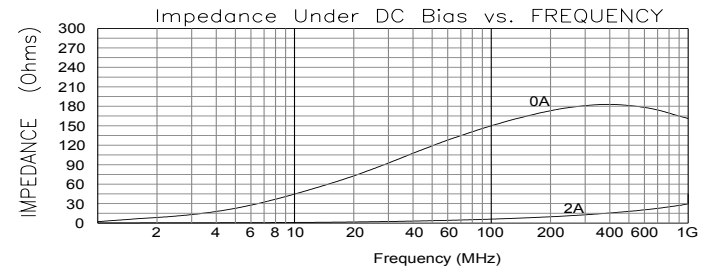
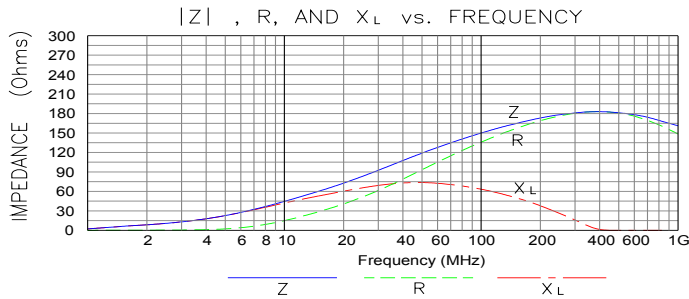
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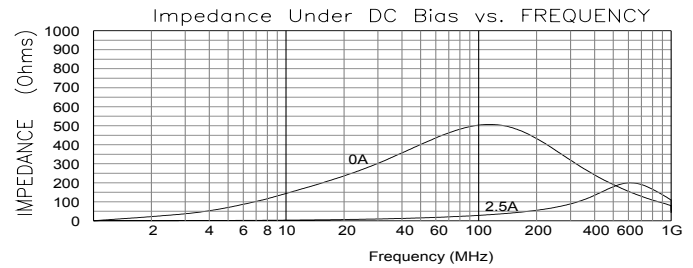
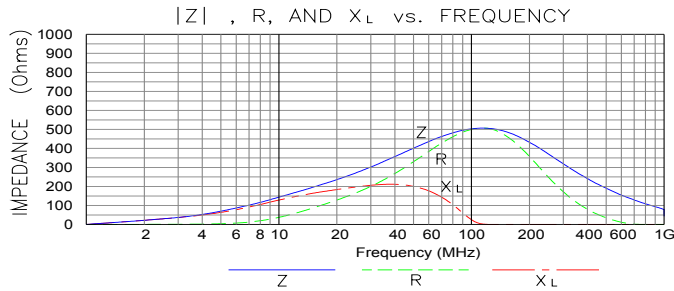
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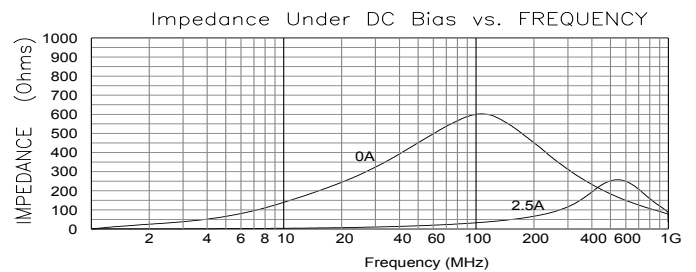
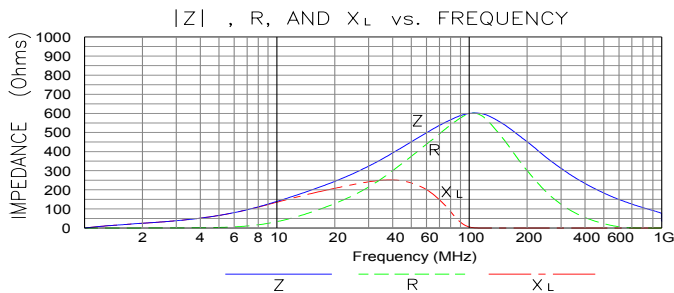
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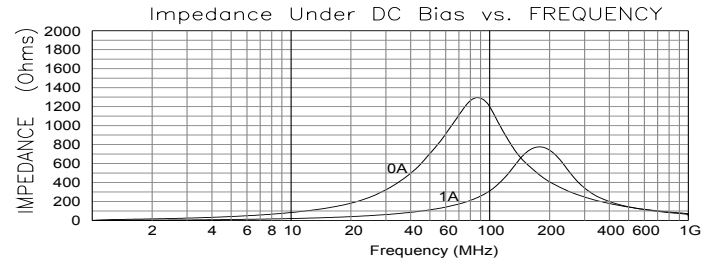
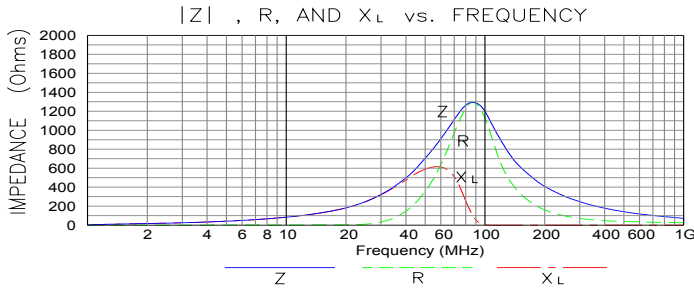


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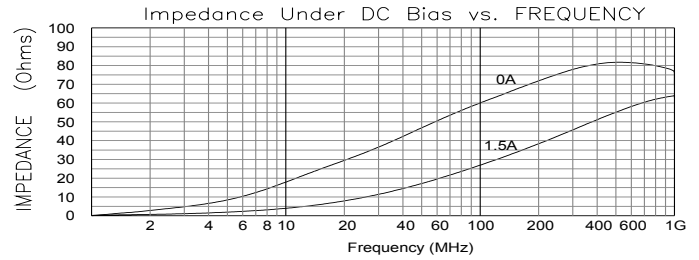
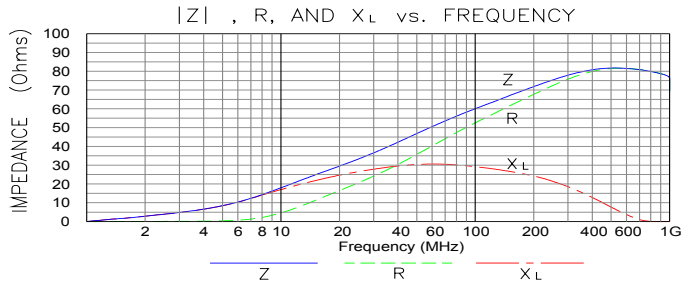


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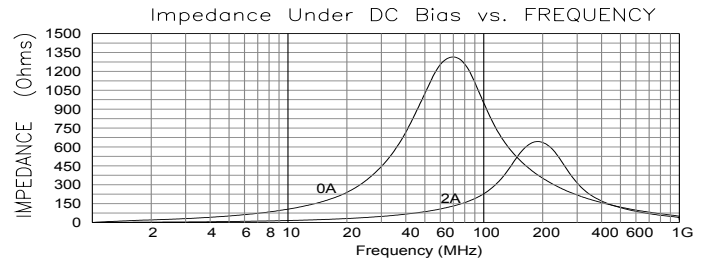
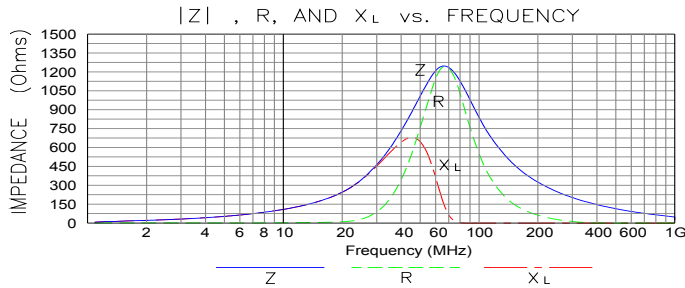
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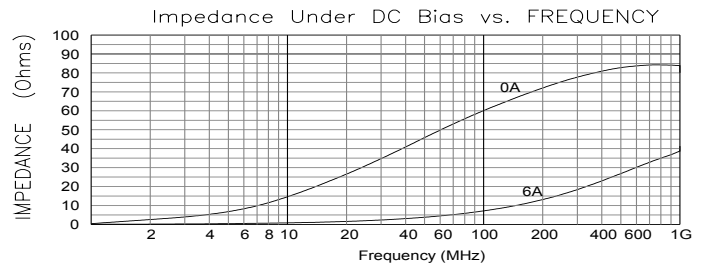
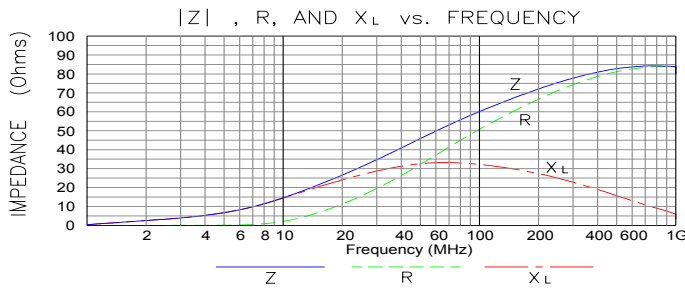
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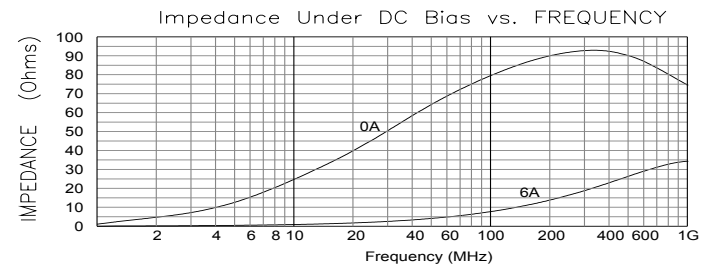
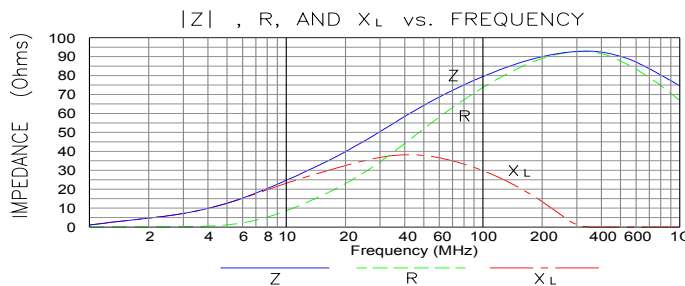
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MHC4516S600W

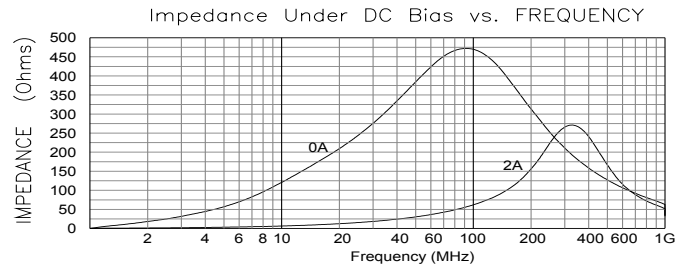
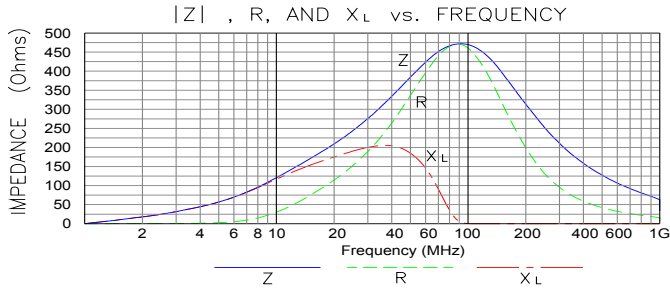


MHC4516S800W

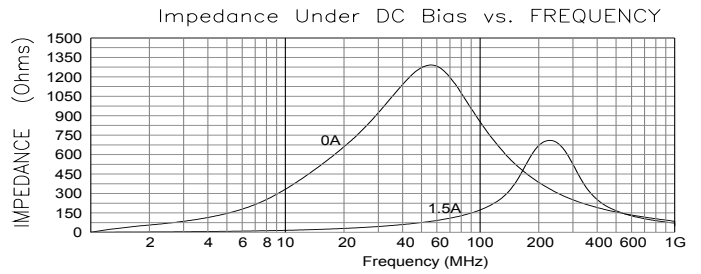
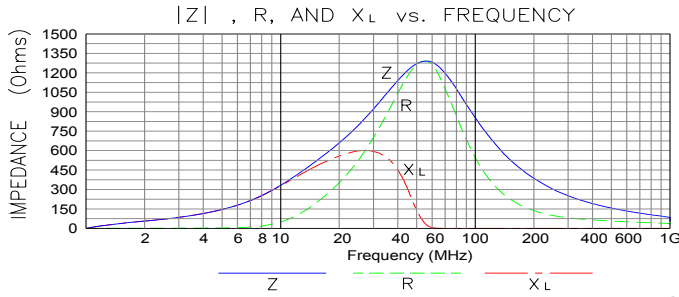


MHC Series

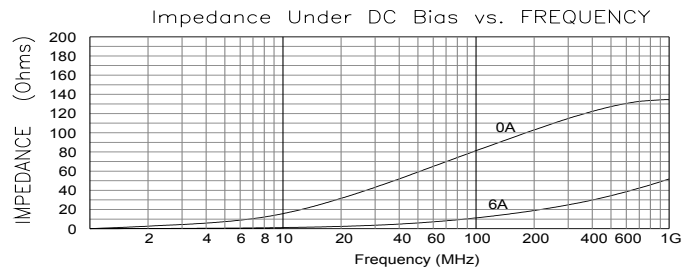
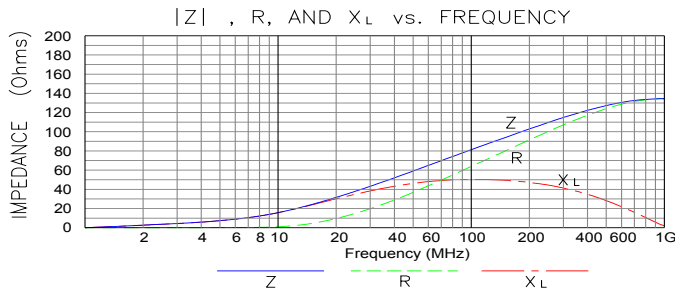
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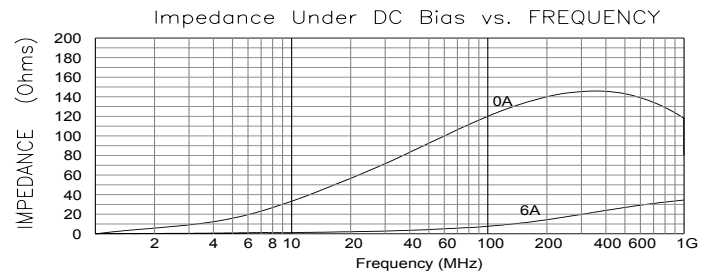
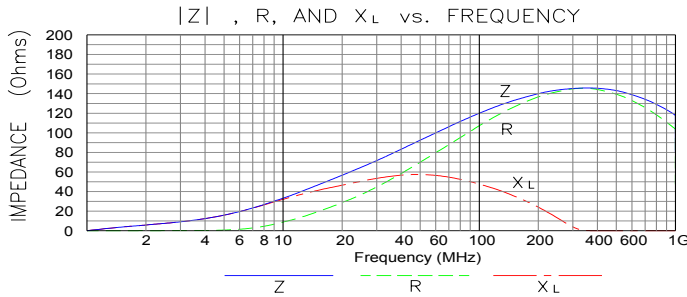
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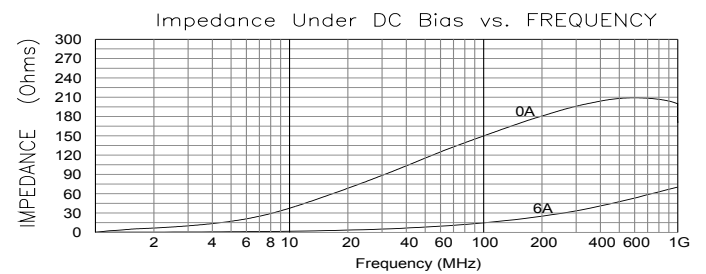
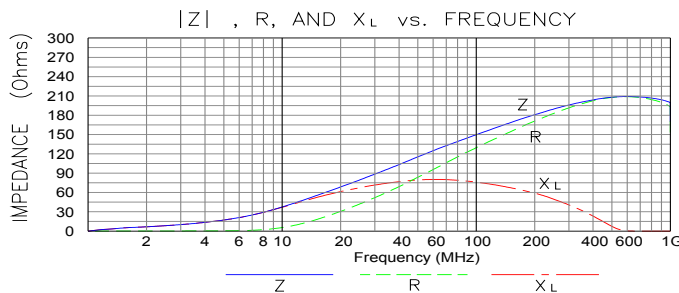
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MHC4532S121W



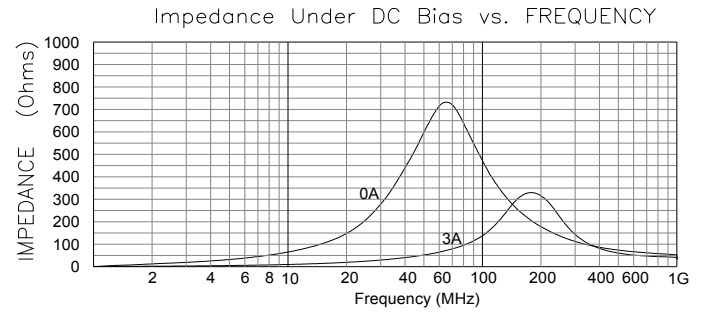
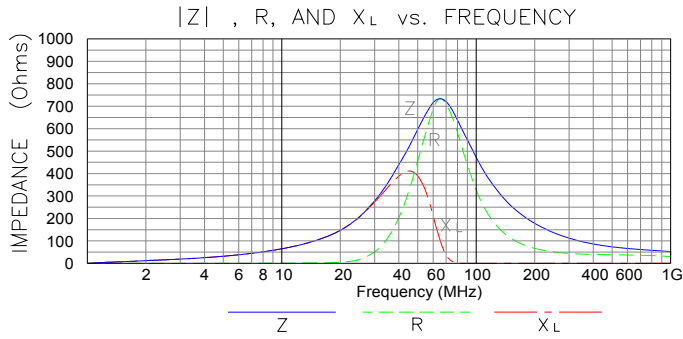
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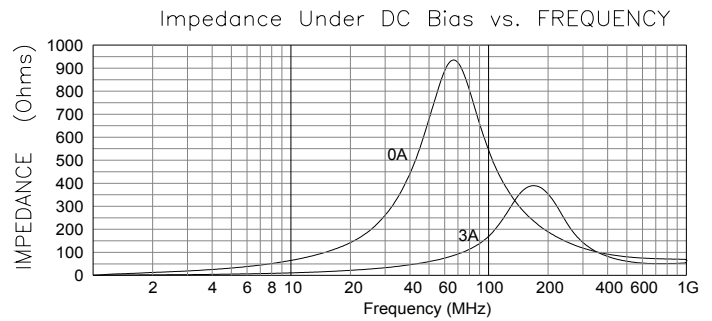
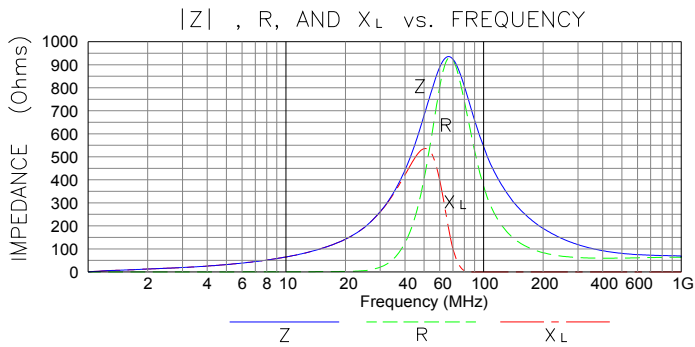
High Current Chip Ferrite Bead **RoHS**

MHC Series

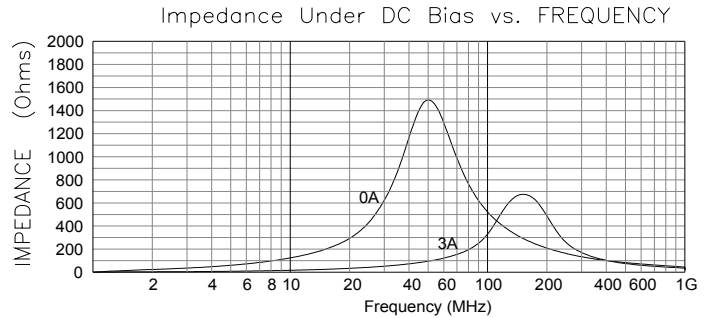
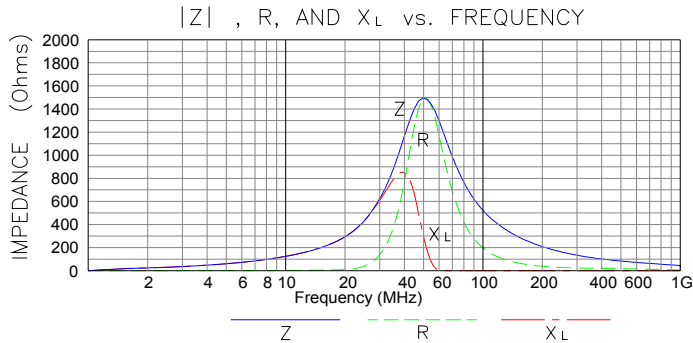
MHC4532S601Q



MHC4532S681Q



MHC4532S132Q



Package

Size (EIA)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4516 (1806)	4532 (1812)
Standard packing quantity (PCS/Reel)	4,000	4,000	3,000	2,000	2,000	1,000