

### ◆ Feature

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



### ◆ Application

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



### ◆ How to Order

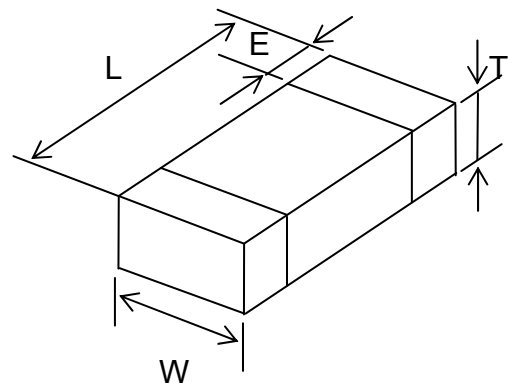
**MHC** **1608** **S** **12** **1** **P** **B** **-**  
 (1) (2) (3) (4) (5) (6) (7) (8)

- (1) Series Type
- (2) Chip Size(mm): Length x Width
- (3) Product Characteristics: S-For Standard Application
- (4) Impedance ( $\Omega$ )/ $\pm 25\%$  ex.:  $60\Omega \rightarrow 600$ ;  $120\Omega \rightarrow 121$
- (5) Fixed Decimal Point
- (6) Rated current: L = 1000mA, M = 1500mA, N = 2000mA, P = 2500mA, Q = 3000mA, R = 4000mA, U = 5000mA, W = 6000mA
- (7) Soldering: Green Parts: B- Lead-Free for whole chip
- (8) Packaging: P – Embossed paper tape, 7" reel  
E – Embossed plastic tape, 7" reel

### ◆ Dimension

Unit: mm

Size(EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4516 (1806)	4532 (1812)
L	1.00 $\pm$ 0.10	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	0.50 $\pm$ 0.10	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	0.50 $\pm$ 0.10	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	0.25 $\pm$ 0.10	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



◆ Specification

Part Number	Impedance +/- 25% ( $\Omega$ )	Test Freq. (MHz)	DCR ( $\Omega$ ) Max	Rated Current (mA)
<b>1005 (EIA 0402)</b>				
MHC1005S100NBP	10	100	0.09	2000
MHC1005S300NBP	30	100	0.09	2000
MHC1005S600LBP	60	100	0.20	1000
MHC1005S121MBP	120	100	0.15	1500
<b>1608 (EIA 0603) Packaging Code: P 、 E</b>				
MHC1608S300QB_	30	100	0.040	3000
MHC1608S600QB_	60	100	0.040	3000
MHC1608S800QB_	80	100	0.040	3000
MHC1608S121PB_	120	100	0.070	2500
MHC1608S221NB_	220	100	0.090	2000
MHC1608S301NB_	300	100	0.090	2000
MHC1608S451MB	450	100	0.150	1500
MHC1608S601LB_	600	100	0.200	1000
<b>2012 (EIA 0805) Packaging Code: P 、 E</b>				
MHC2012S110WB_	11	100	0.015	6000
MHC2012S310WB_	31	100	0.015	6000
MHC2012S400RB_	40	100	0.030	4000
MHC2012S600QB_	60	100	0.040	3000
MHC2012S800UB_	80	100	0.020	5000
MHC2012S900UB_	90	100	0.020	5000
MHC2012S121UB_	120	100	0.020	5000
MHC2012S221QB_	220	100	0.040	3000
MHC2012S251QB_	250	100	0.040	3000
MHC2012S301NB_	300	100	0.090	2000
MHC2012S331NB_	330	100	0.090	2000
MHC2012S601NB_	600	100	0.090	2000
<b>3216 (EIA 1206) Packaging Code: E</b>				
MHC3216S500WB_	50	100	0.015	6000
MHC3216S600QB_	60	100	0.040	3000
MHC3216S750QB_	75	100	0.040	3000
MHC3216S800RB_	80	100	0.030	4000
MHC3216S900QB_	90	100	0.040	3000
MHC3216S121WB_	120	100	0.015	6000
MHC3216S151NB_	150	100	0.090	2000
MHC3216S501PB_	500	100	0.070	2500
MHC3216S601PB_	600	100	0.070	2500
MHC3216S122LB_	1200	100	0.200	1000

●All Specifications are subject to change without notice.

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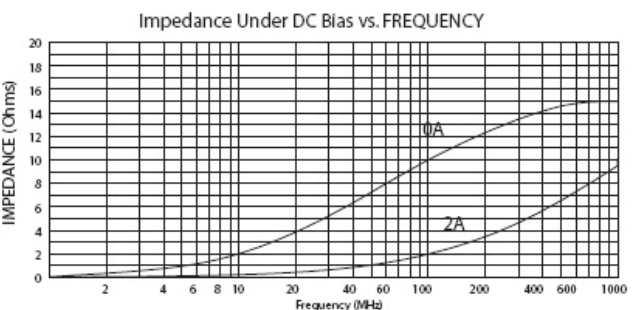
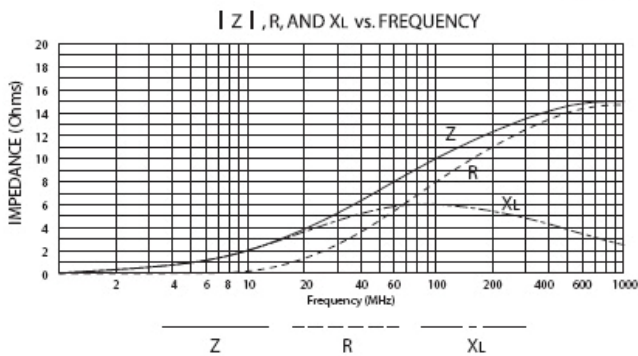
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<b>3225 (EIA 1210)</b>				
MHC3225S600MBE	60	100	0.150	1500
MHC3225S102NBE	1000	50	0.090	2000
<b>4516 (EIA 1806)</b>				
MHC4516S600WBE	60	100	0.015	6000
MHC4516S800WBE	80	100	0.015	6000
MHC4516S471NBE	470	100	0.090	2000
MHC4516S851MBE	850	100	0.150	1500
<b>4532 (EIA 1812)</b>				
MHC4532S800WBE	80	100	0.015	6000
MHC4532S121WBE	120	100	0.015	6000
MHC4532S151WBE	150	100	0.015	6000
MHC4532S601QBE	600	50	0.040	3000
MHC4532S681QBE	680	50	0.040	3000
MHC4532S132QBE	1300	60	0.040	3000

◆ General Technical Data

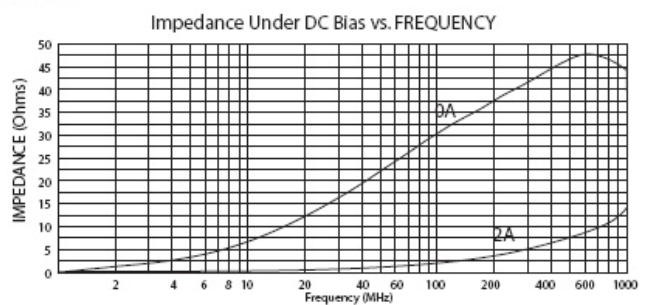
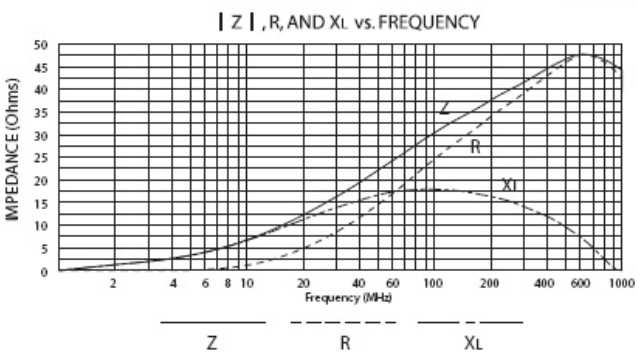
Operating Temperature Range	-55°C ~ +125°C
Storage Condition	Less than 40°C and 70% RH
Soldering Method	Reflow or Wave Soldering

◆ Impedance vs. Frequency

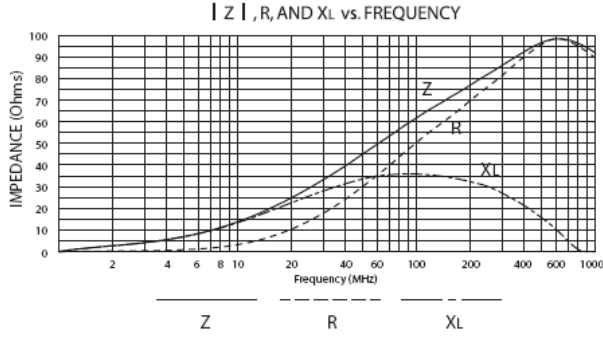
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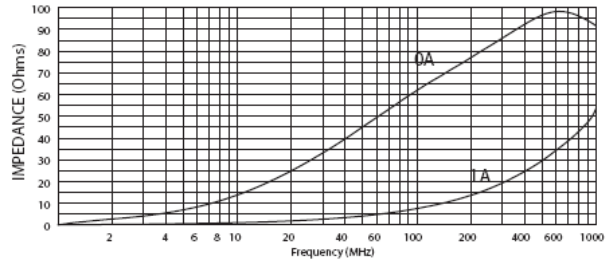
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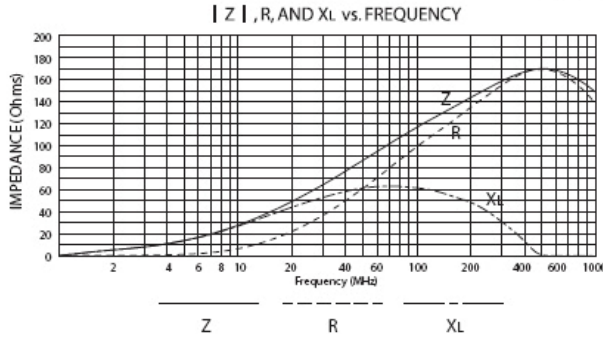
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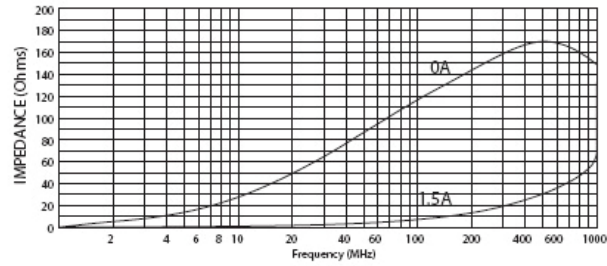
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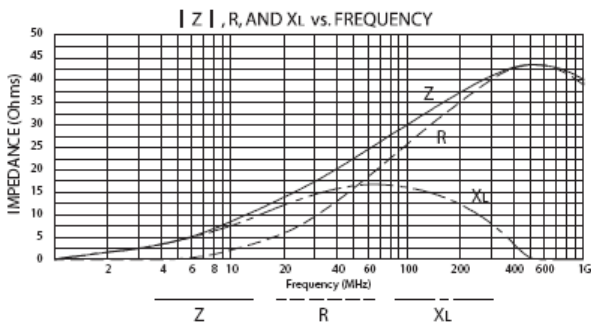
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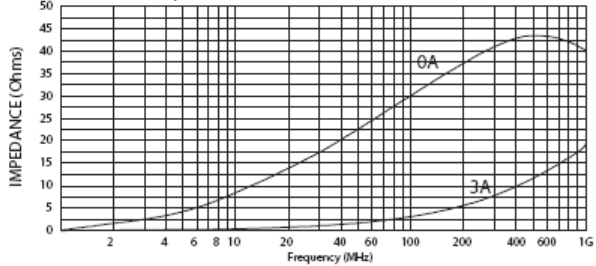
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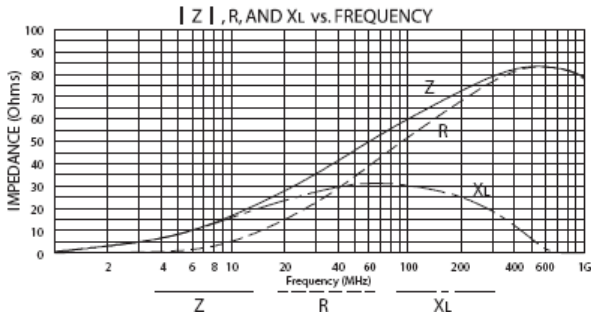
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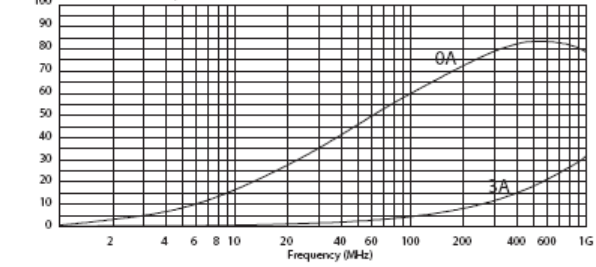
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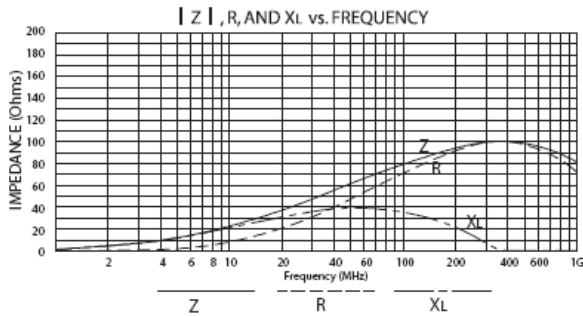
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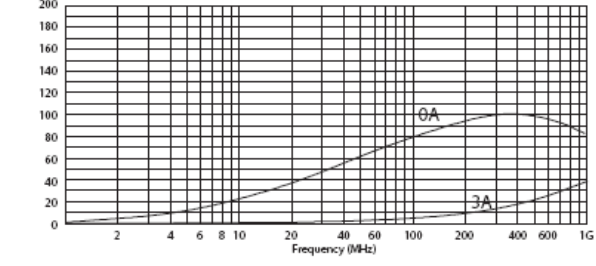
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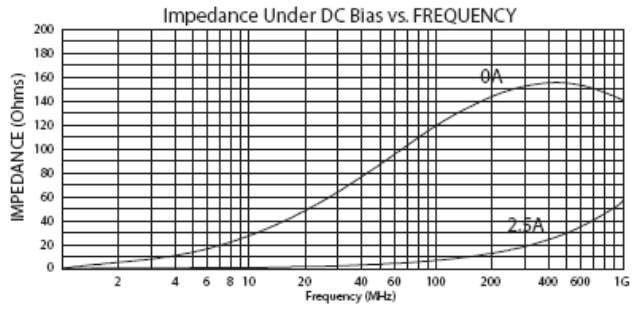
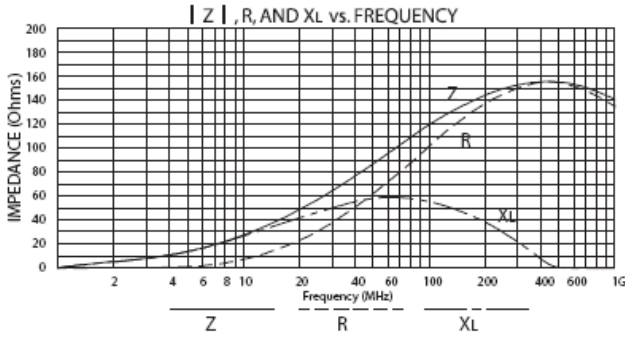
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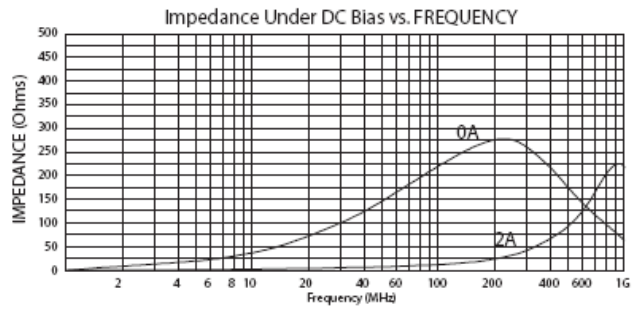
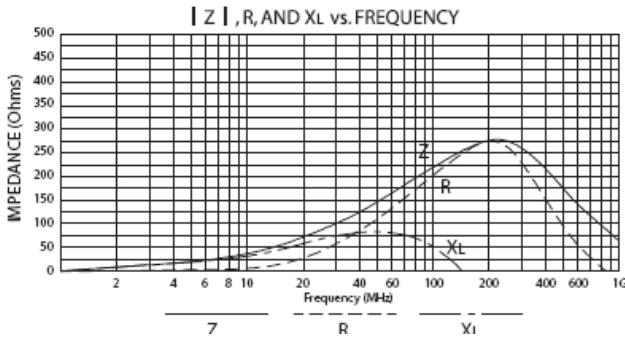
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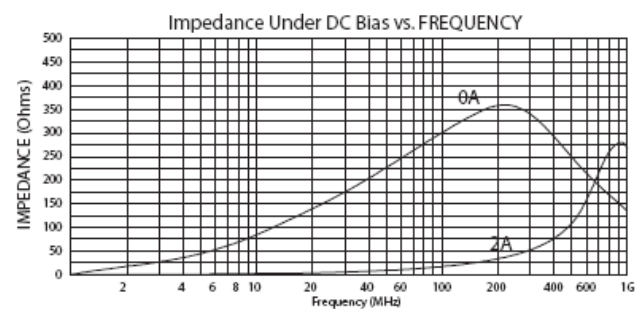
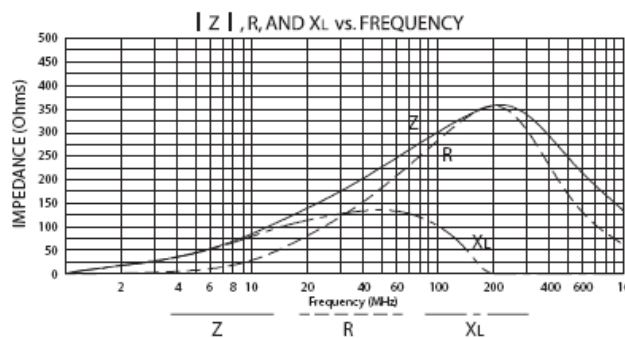
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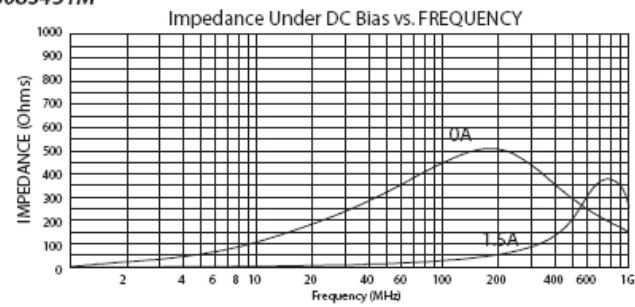
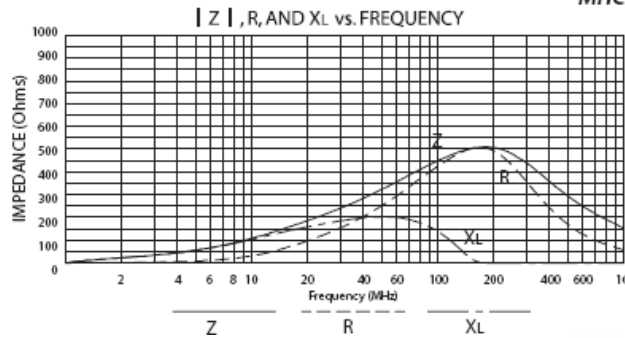
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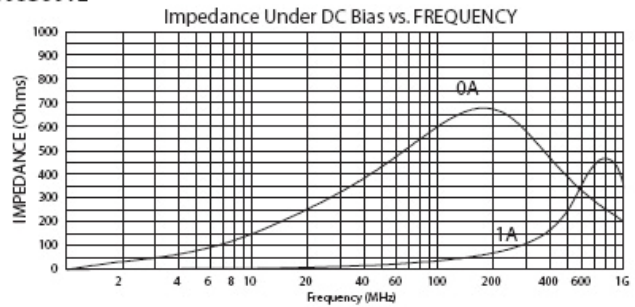
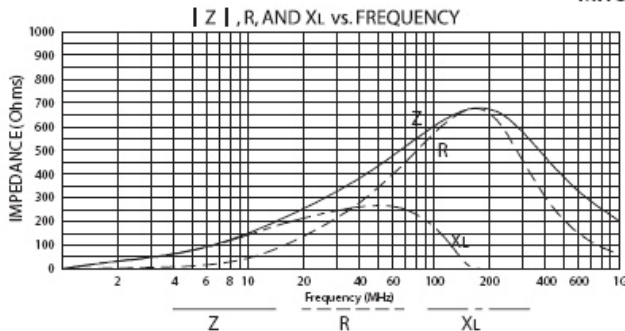
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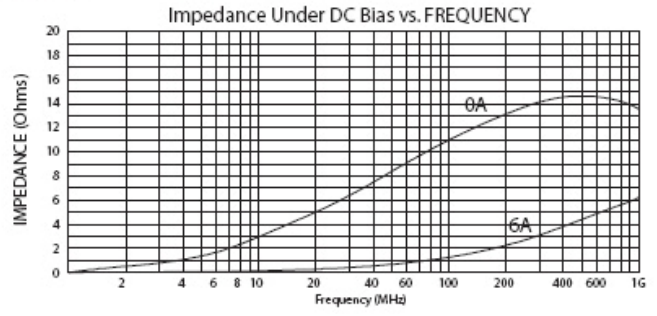
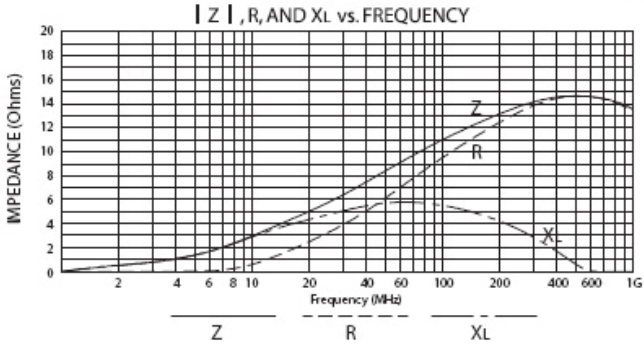
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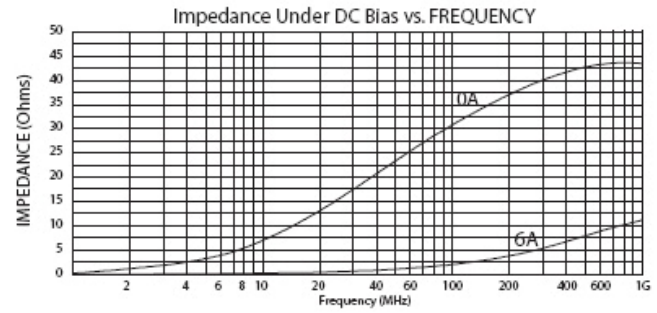
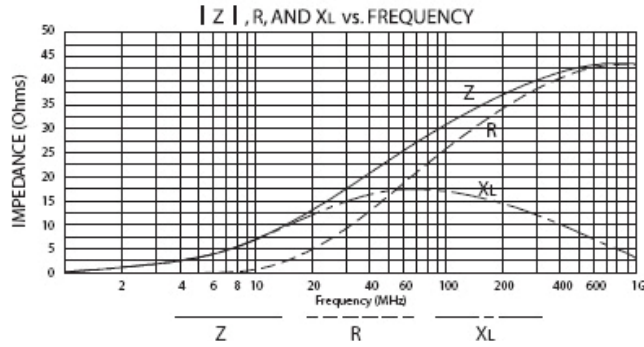
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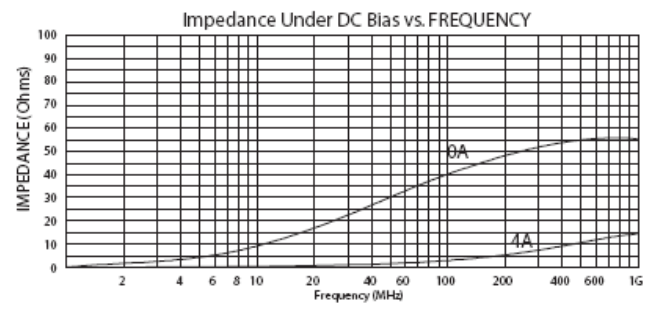
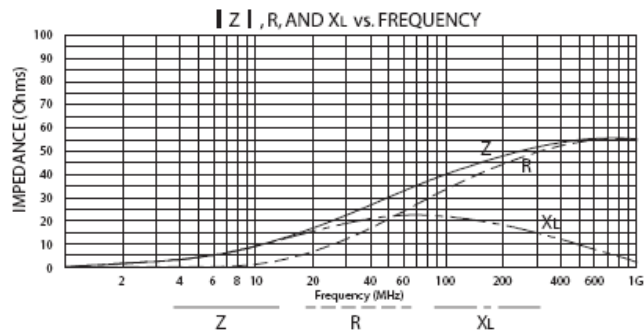
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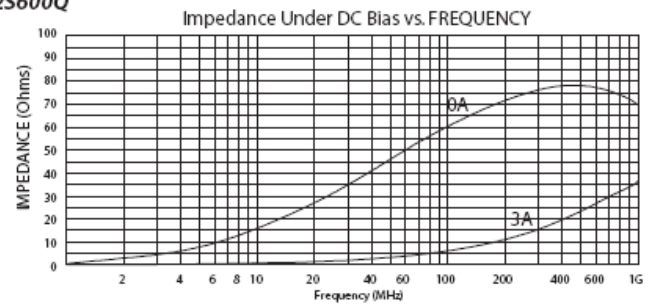
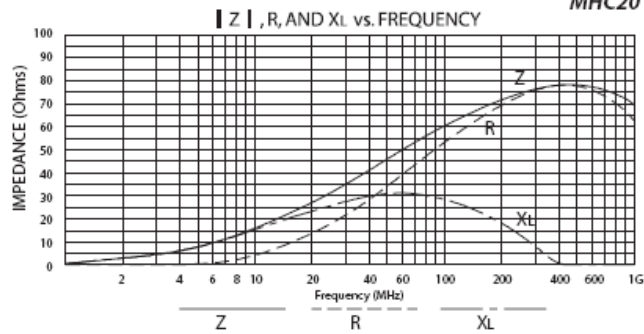
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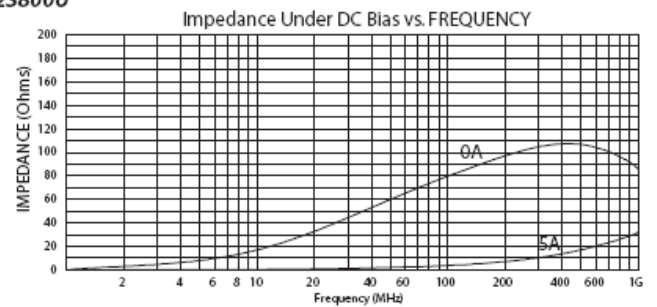
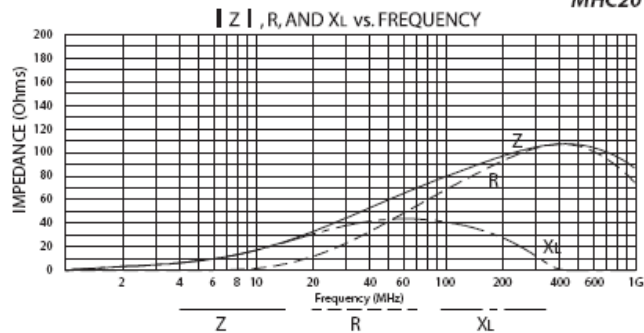
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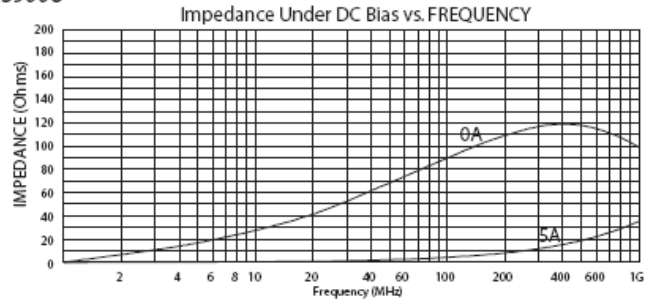
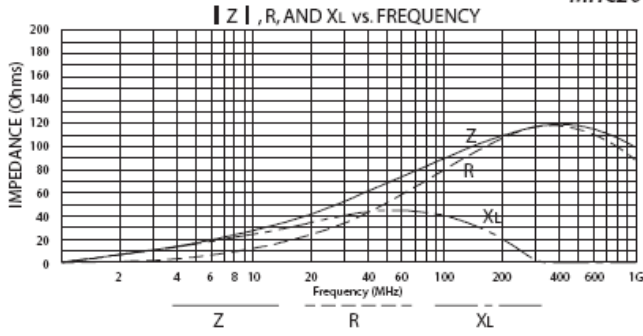
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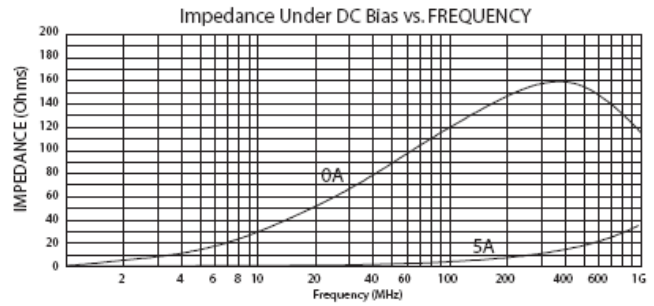
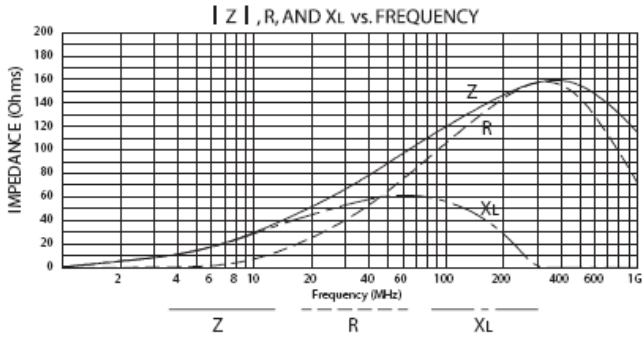
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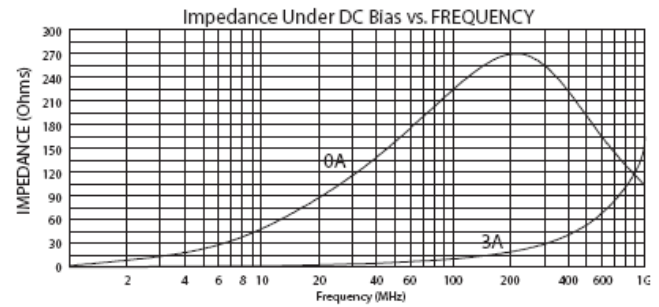
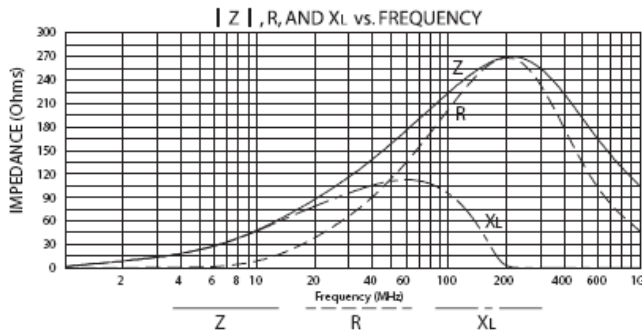
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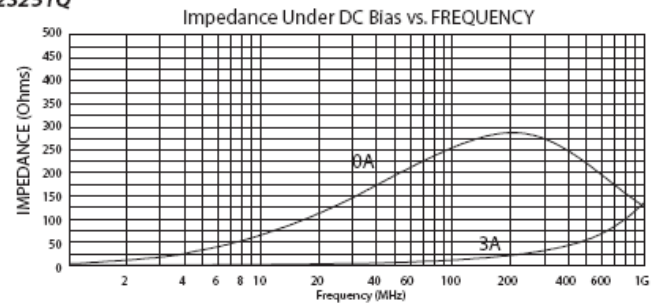
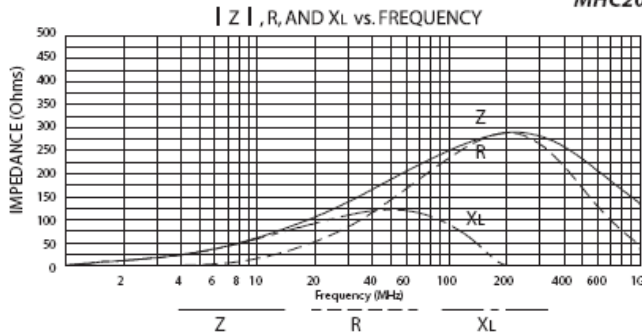
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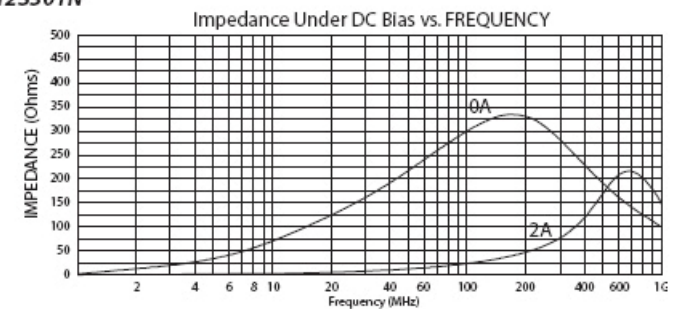
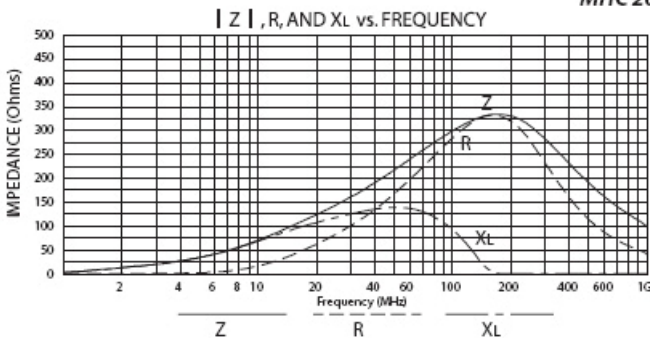
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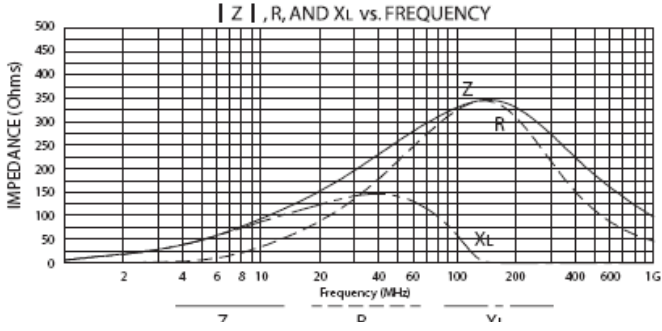
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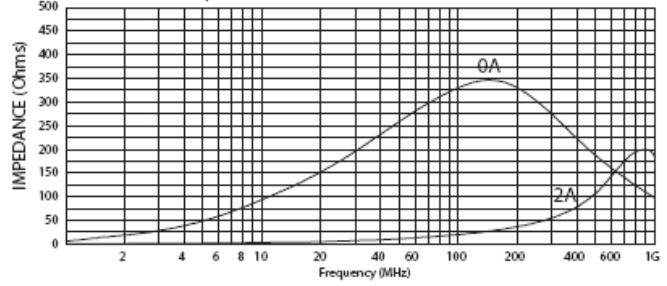
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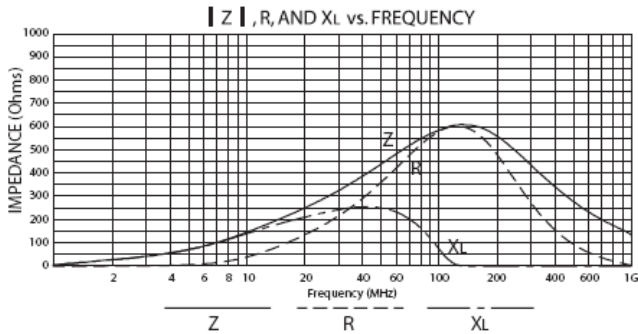
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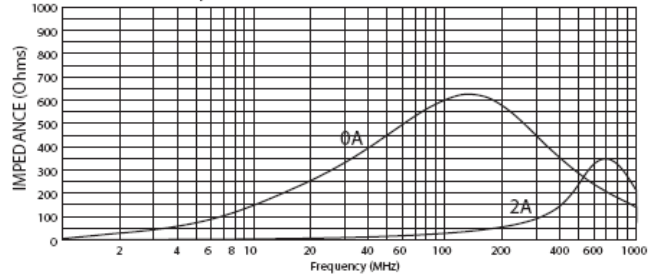
Impedance Under DC Bias vs. FREQUENCY



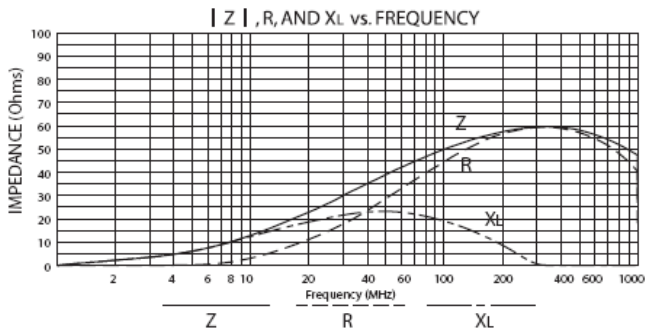
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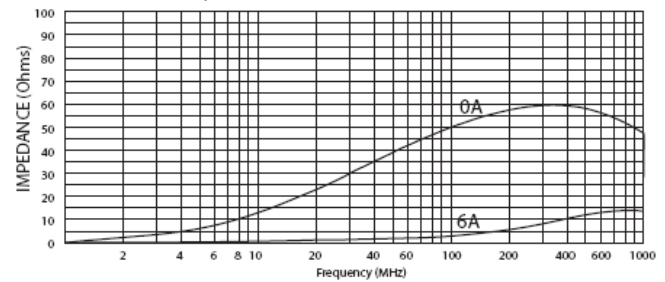
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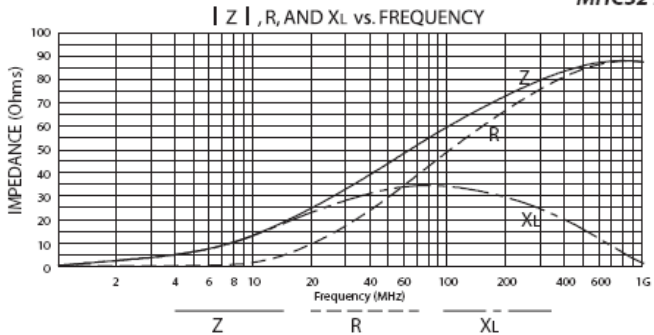
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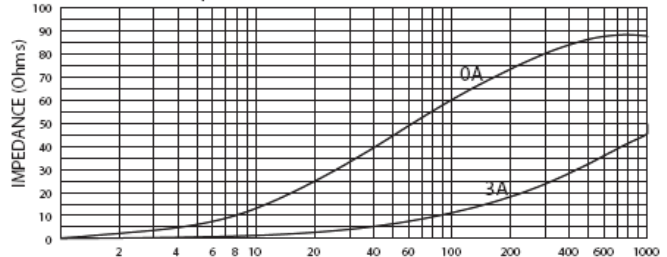
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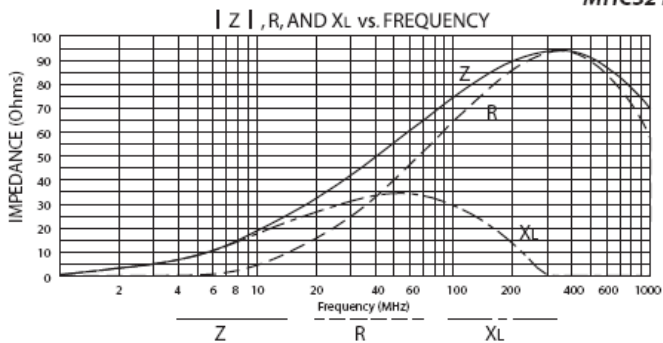
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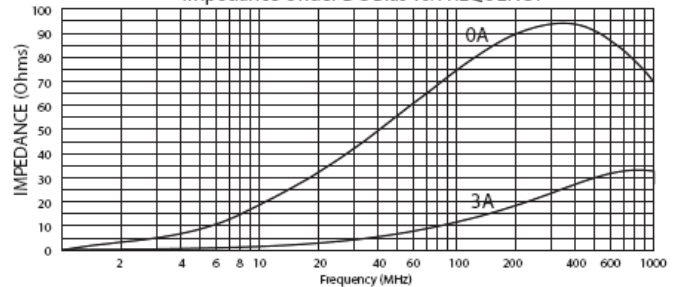
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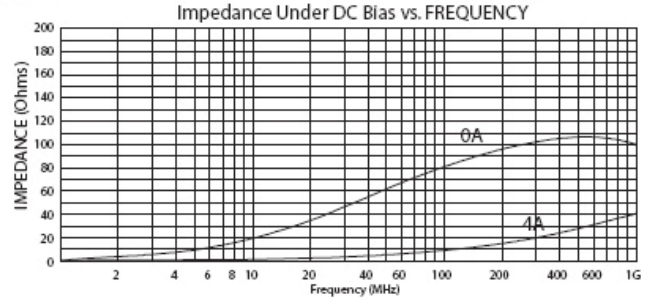
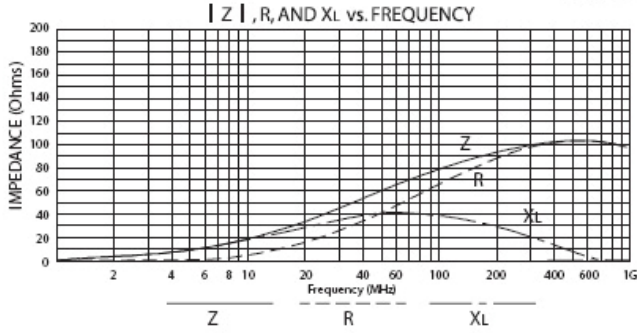
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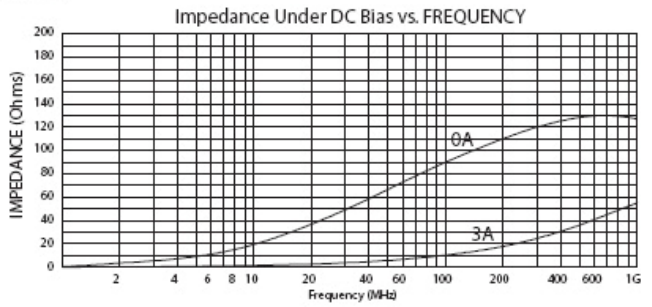
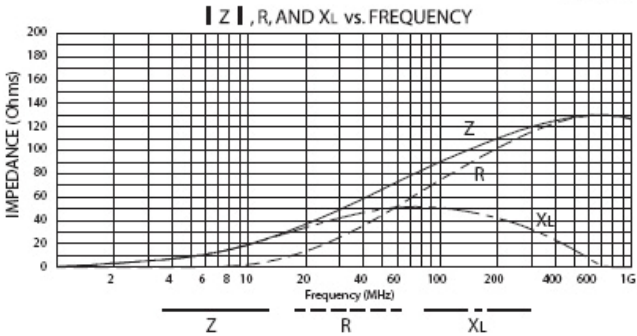
Impedance Under DC Bias vs. FREQUENCY



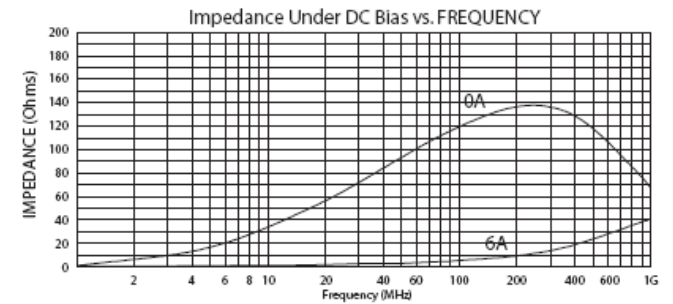
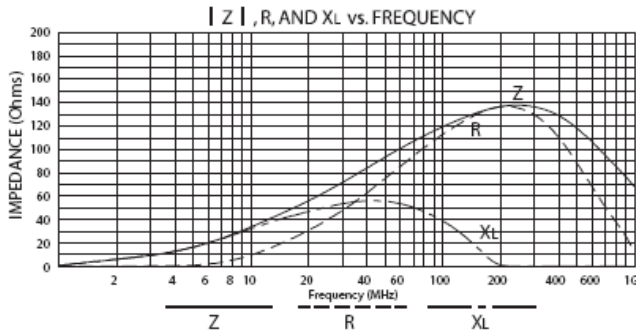
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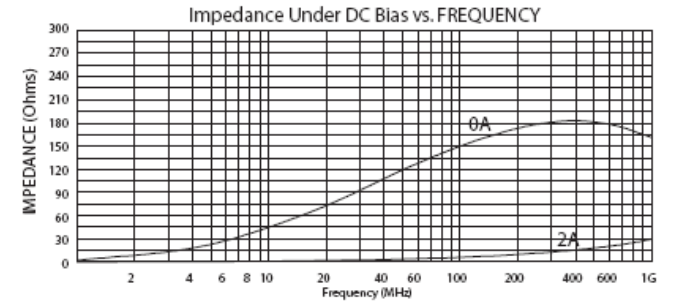
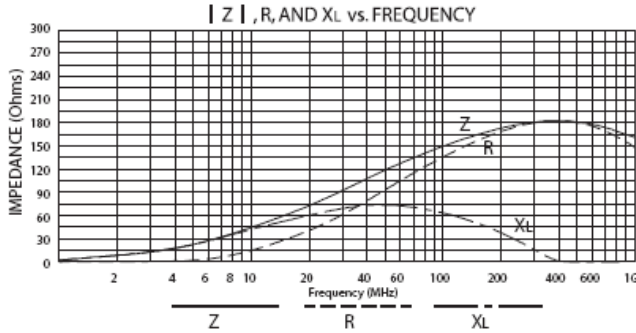
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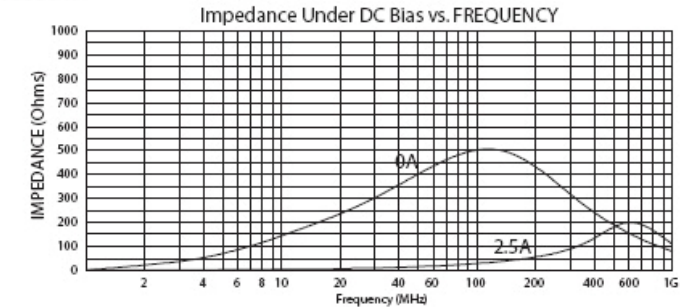
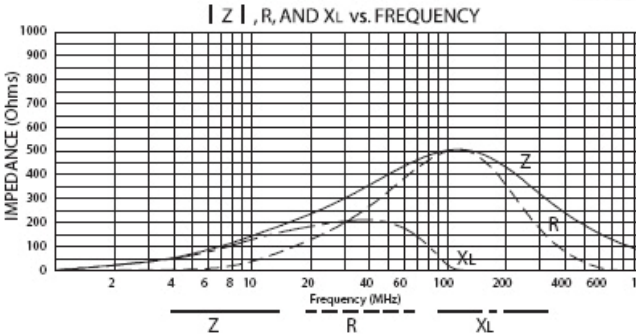
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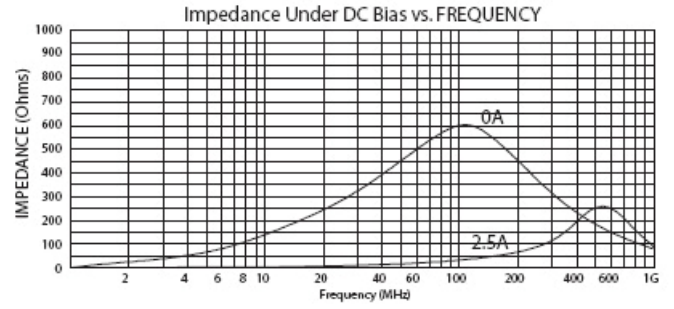
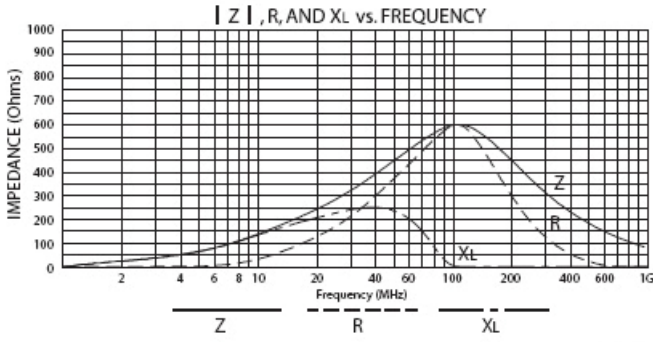
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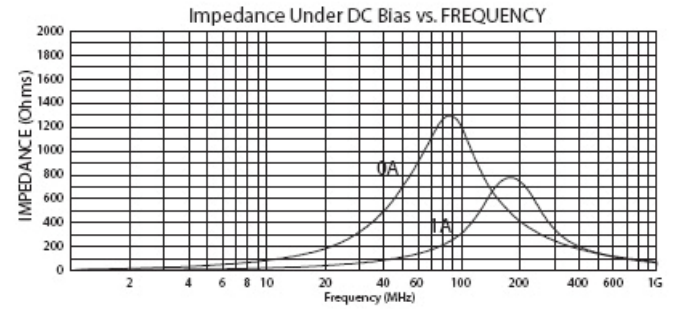
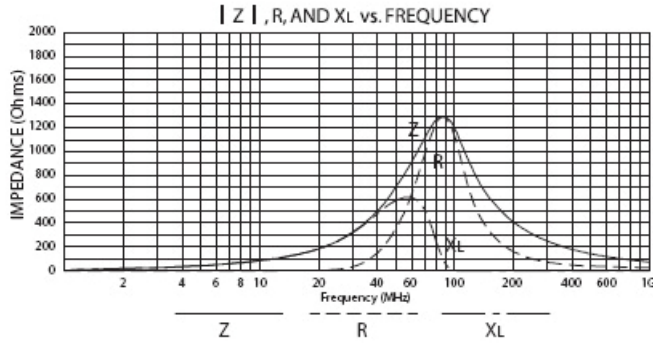
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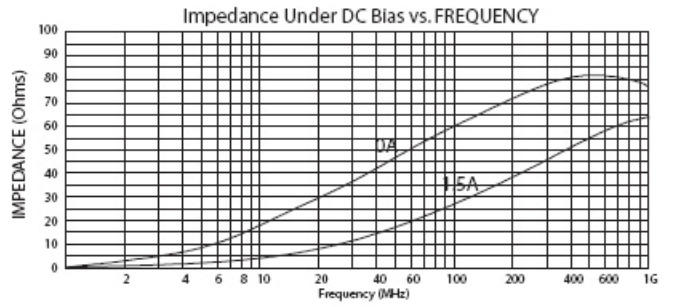
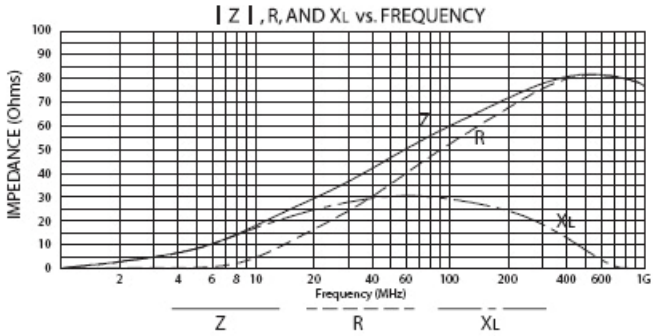
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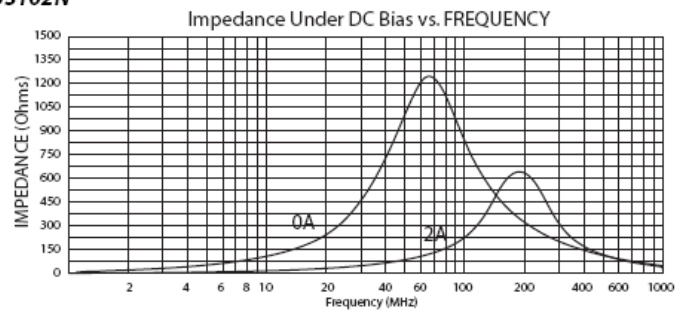
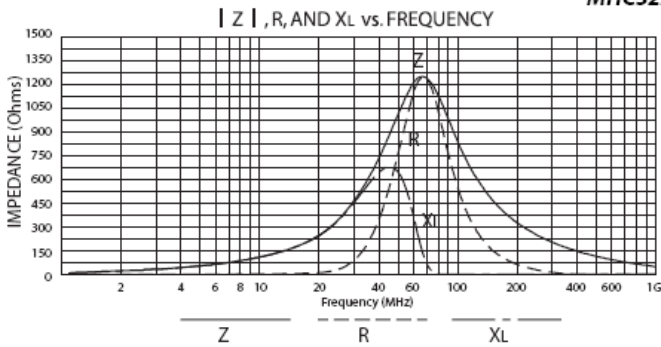
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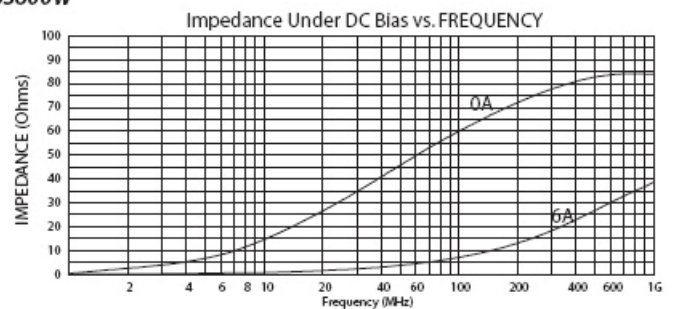
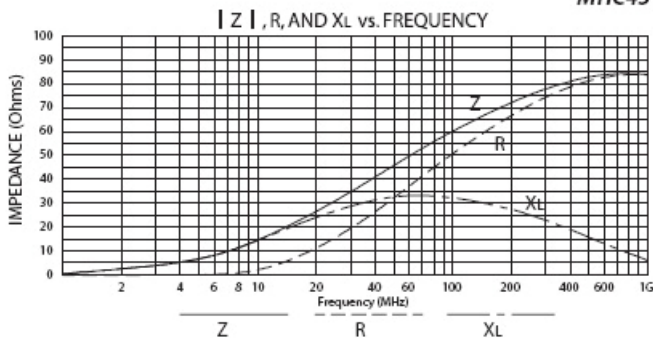
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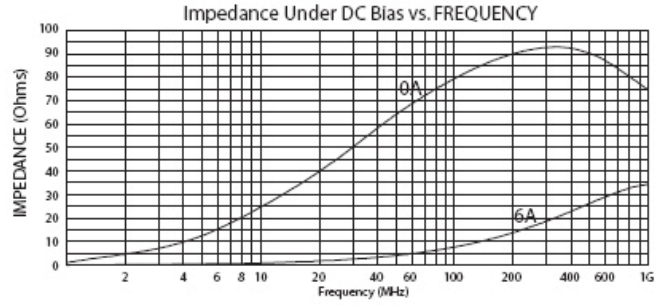
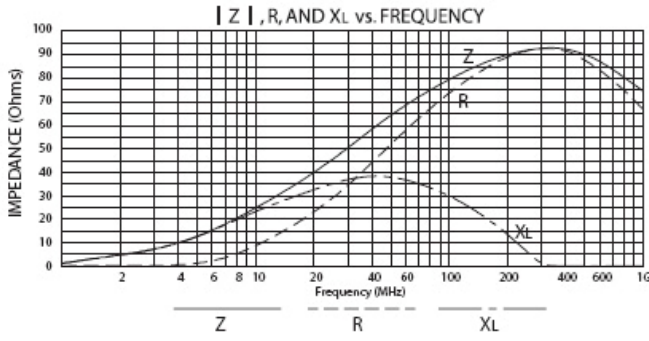
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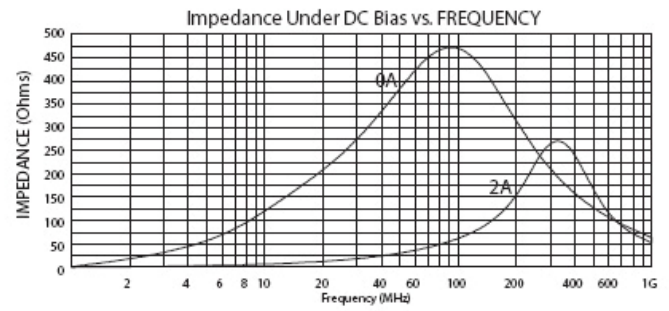
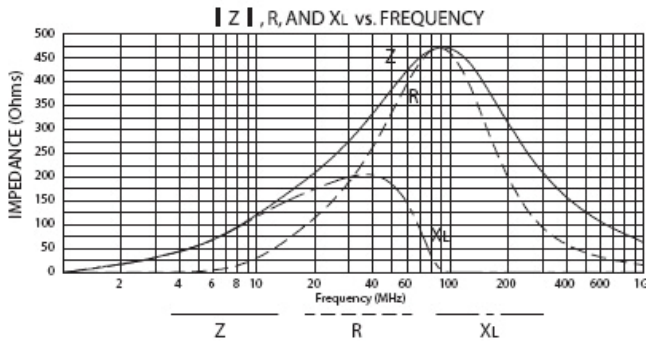
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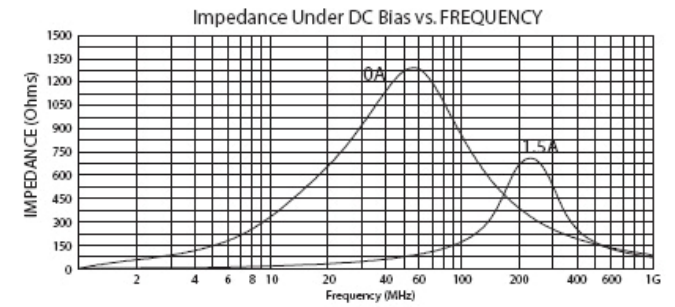
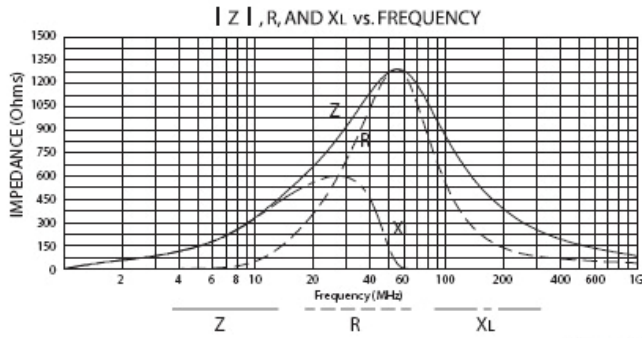
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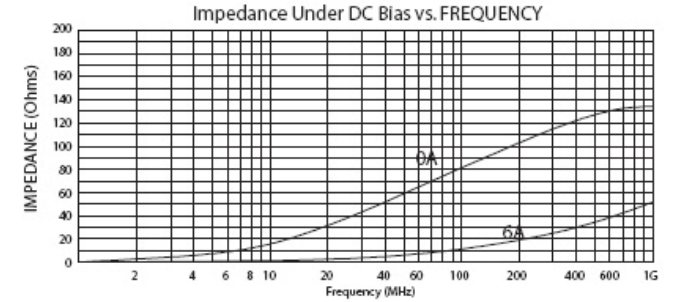
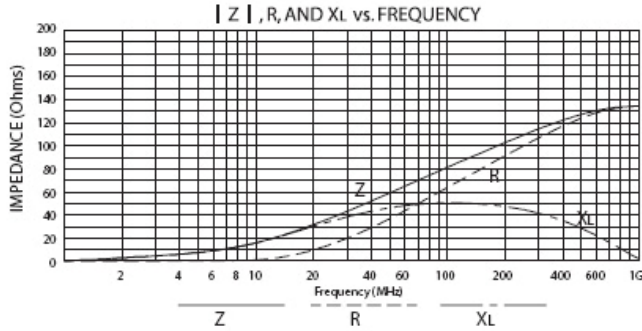
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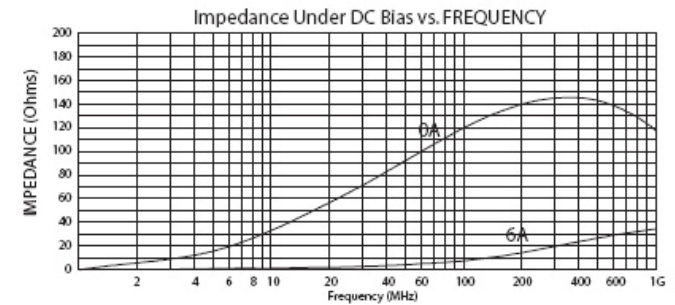
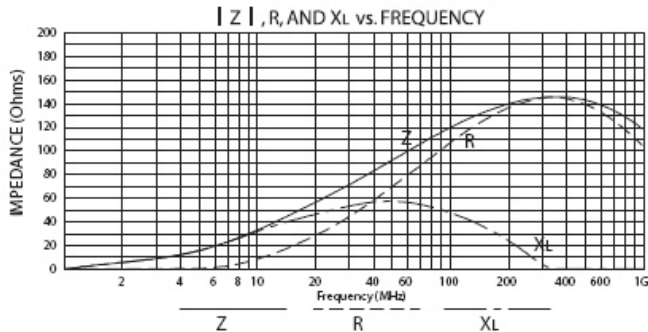
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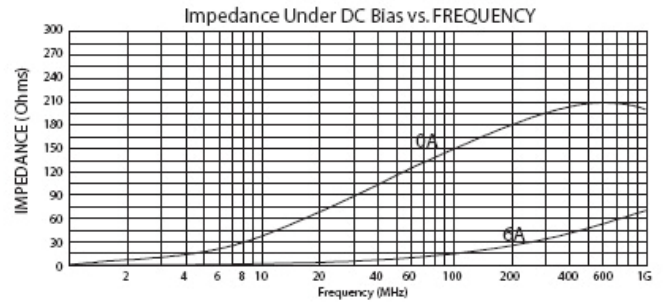
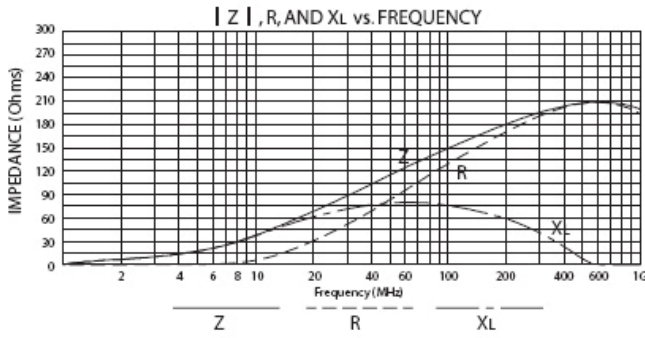
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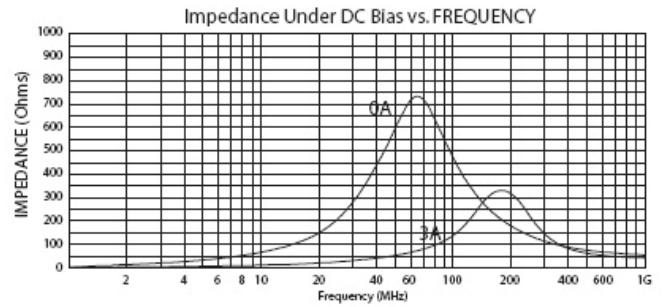
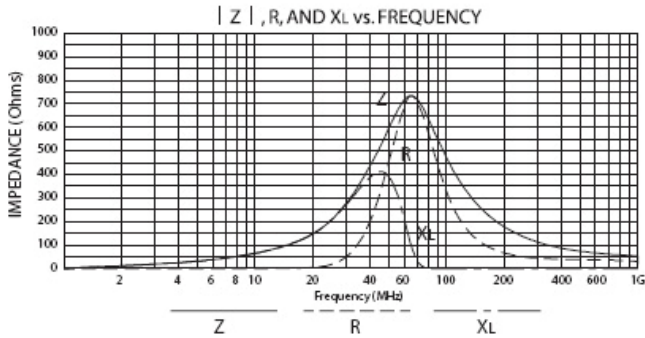
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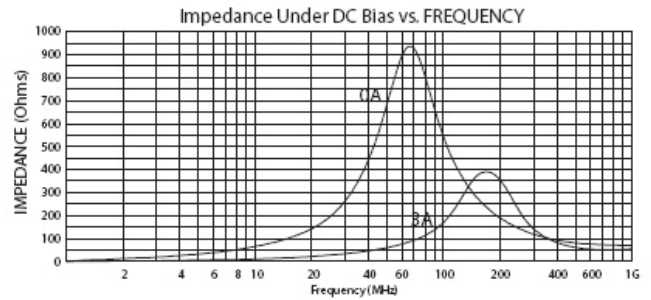
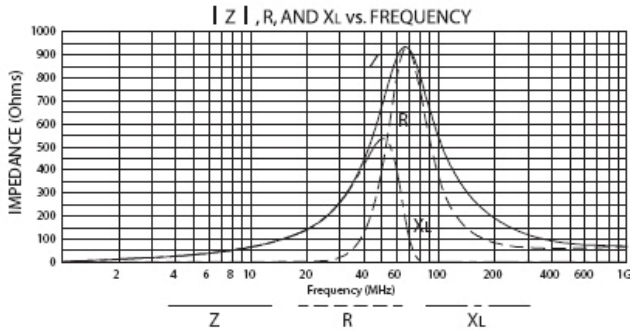
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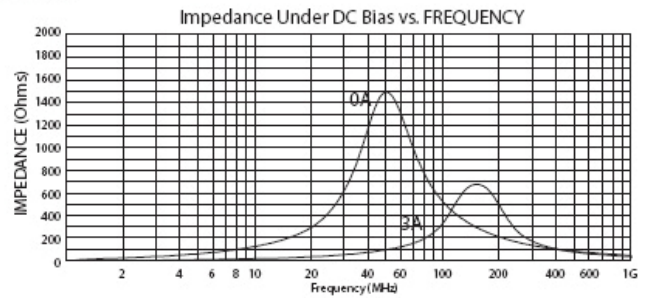
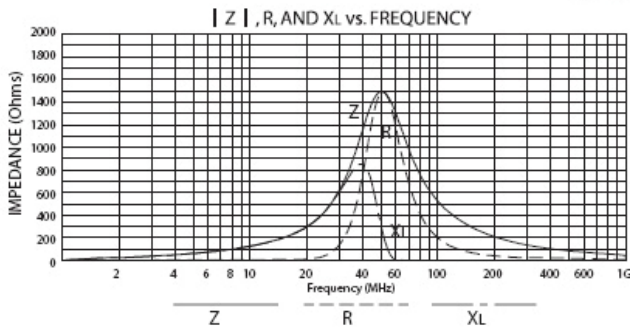
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MHC4532S681Q



MHC4532S132Q



## ◆ Package

Size (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)	3225 (1210)	4516 (1806)	4532 (1812)
Standard packing Quantity (pcs/reel)	10,000	4,000	4,000	3,000	2,000	2,000	1,000