



◆ Feature

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



◆ Application

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.

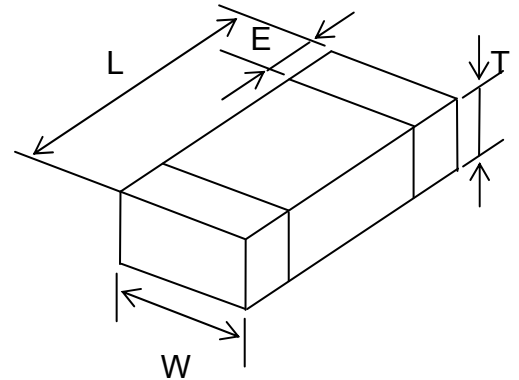
◆ How to Order

- |            |             |          |           |          |          |          |          |
|------------|-------------|----------|-----------|----------|----------|----------|----------|
| <b>MCB</b> | <b>1608</b> | <b>H</b> | <b>12</b> | <b>1</b> | <b>E</b> | <b>B</b> | <b>=</b> |
| (1)        | (2)         | (3)      | (4)       | (5)      | (6)      | (7)      | (8)      |
- (1) Series Type
  - (2) Size(mm): Length x Width
  - (3) Material Code
  - (4) Impedance ( $\Omega$ )/ $\pm 25\%$  ex.:  $60\Omega \rightarrow 600$ ;  $120\Omega \rightarrow 121$
  - (5) Fixed Decimal Point
  - (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: 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)
L	1.00 $\pm$ 0.10	1.60 $\pm$ 0.15	2.00 $\pm$ 0.20
W	0.50 $\pm$ 0.10	0.80 $\pm$ 0.15	1.25 $\pm$ 0.20
T	0.50 $\pm$ 0.10	0.80 $\pm$ 0.15	0.90 $\pm$ 0.20
E	0.25 $\pm$ 0.10	0.30 $\pm$ 0.20	0.50 $\pm$ 0.30



### ◆ Specification

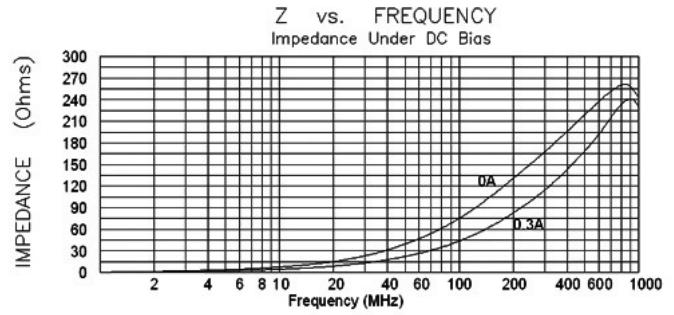
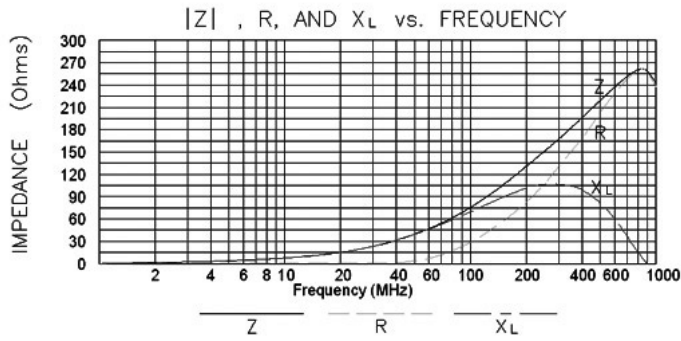
Part Number	Impedance +/- 25% ( $\Omega$ )	Test Freq. (MHz)	DCR ( $\Omega$ ) Max	Rated Current (mA)
<b>1005 (EIA 0402)</b>				
MCB1005H750FBP	75	100	0.40	300
<b>1608 (EIA 0603) Packaging Code: P、E</b>				
MCB1608H200HB_	20	100	0.25	500
MCB1608H600HB_	60	100	0.25	500
MCB1608H750EB_	75	100	0.35	500
MCB1608H800HB_	80	100	0.35	500
MCB1608H121EB_	120	100	0.45	200
MCB1608H241EB_	240	100	0.45	200
MCB1608H301EB_	300	100	0.45	200
MCB1608H601EB_	600	100	0.50	200
MCB1608H102EB_	1000	100	0.60	200
MCB1608U200HB_	20	100	0.25	500
MCB1608U750FB_	75	100	0.35	300
MCB1608U121EB_	120	100	0.45	200
MCB1608U241EB_	240	100	0.65	200
<b>2012 (EIA 0805) Packaging Code: P、E</b>				
MCB2012H101EB_	100	100	0.25	200
MCB2012H121EB_	120	100	0.25	200
MCB2012H151EB_	150	100	0.25	200
MCB2012H221EB_	220	100	0.25	200
MCB2012H301EB_	300	100	0.25	200
MCB2012H471EB_	470	100	0.35	200
MCB2012H601EB_	600	100	0.35	200

### ◆ General Technical Data

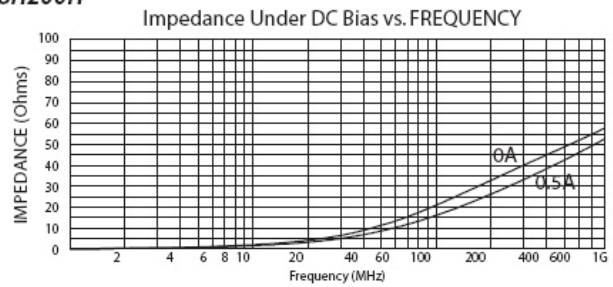
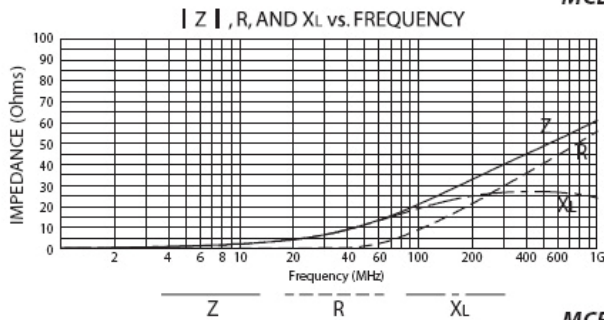
Operating Temperature Range	-55°C ~ +125°C
Storage Condition	Less than 40°C and 70% RH
Soldering Method	Reflow or Wave Soldering

◆ Impedance vs. Frequency

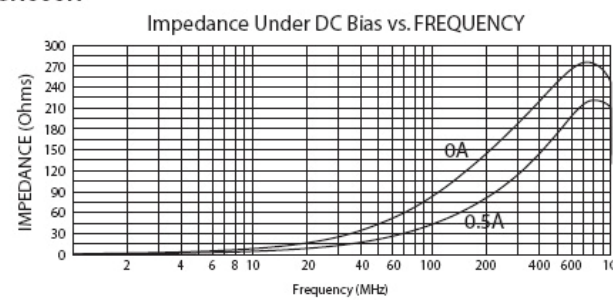
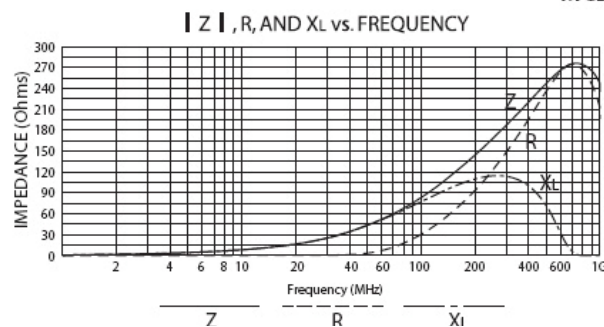
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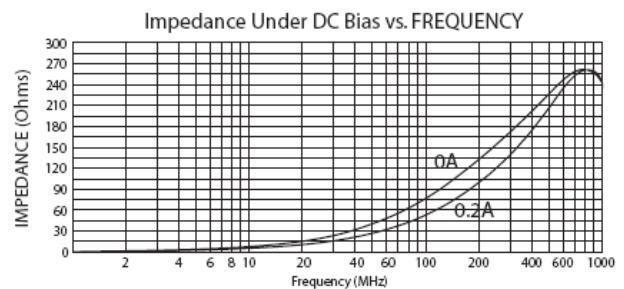
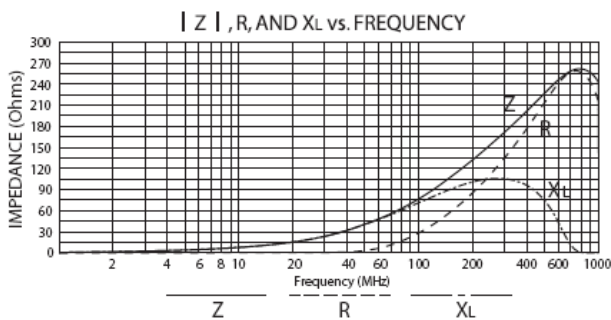
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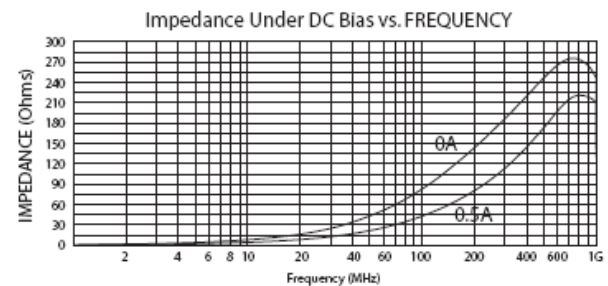
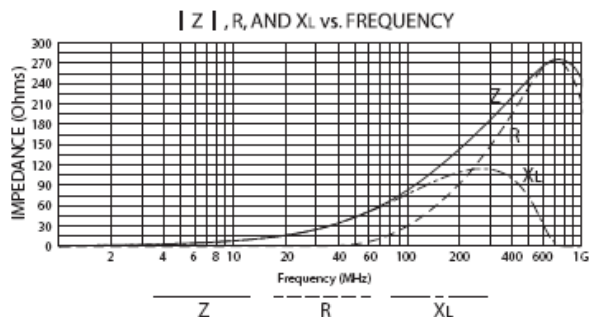
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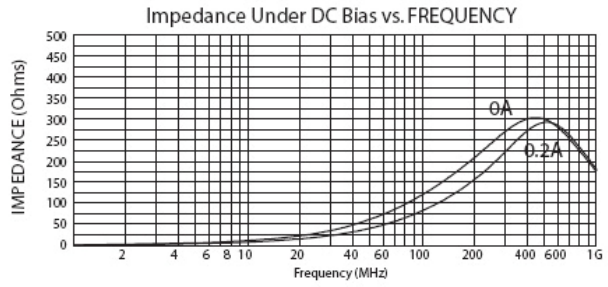
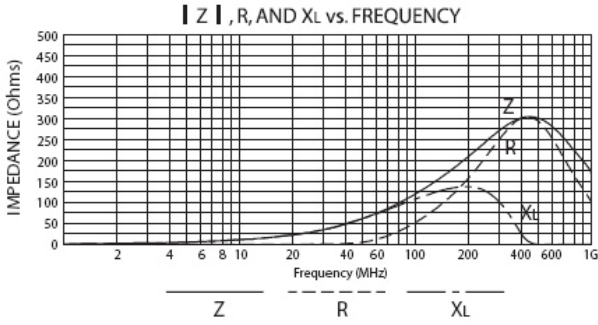
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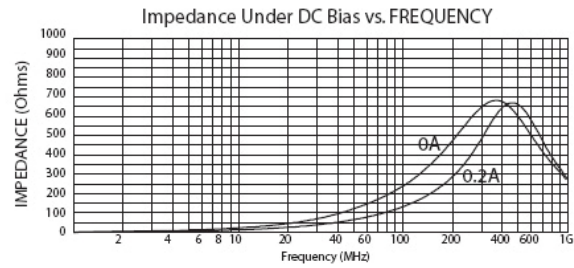
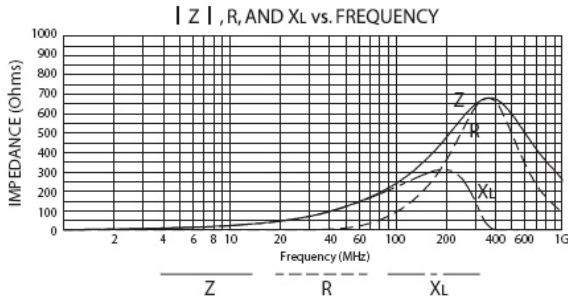
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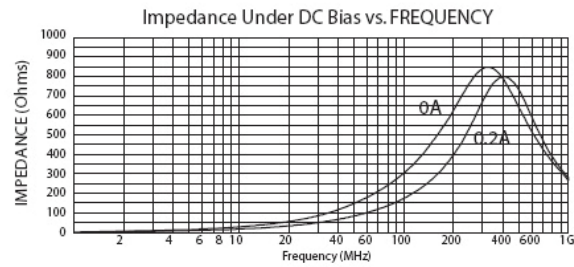
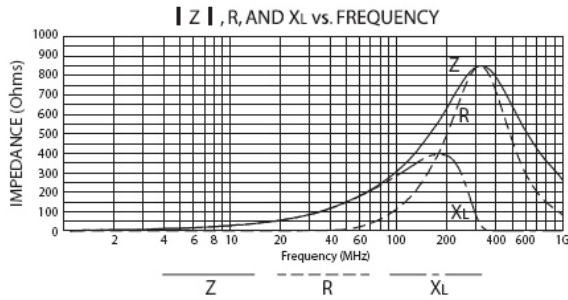
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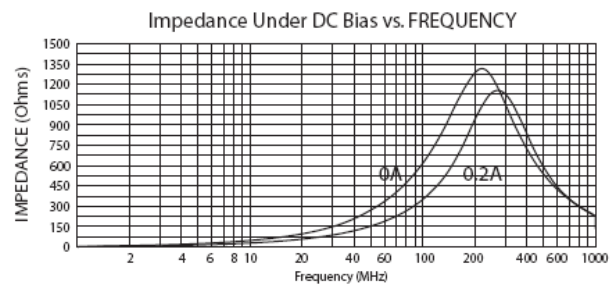
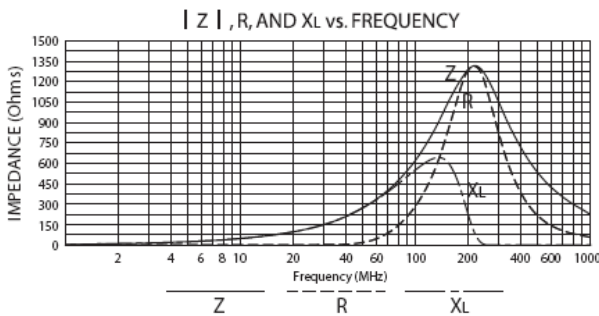
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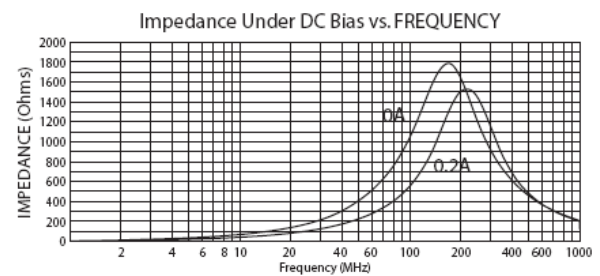
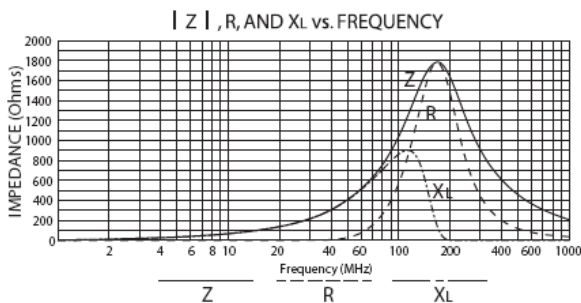
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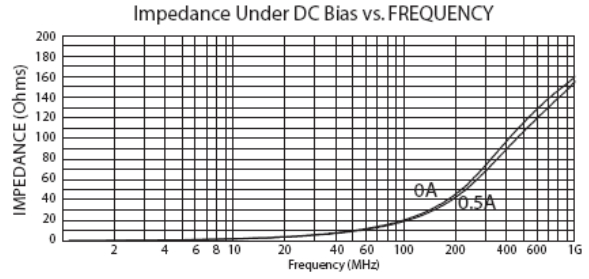
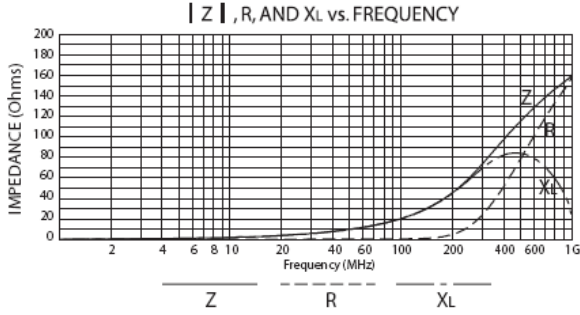
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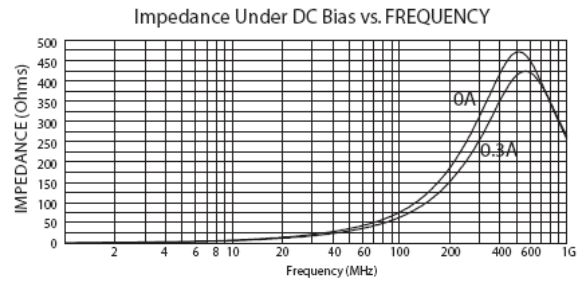
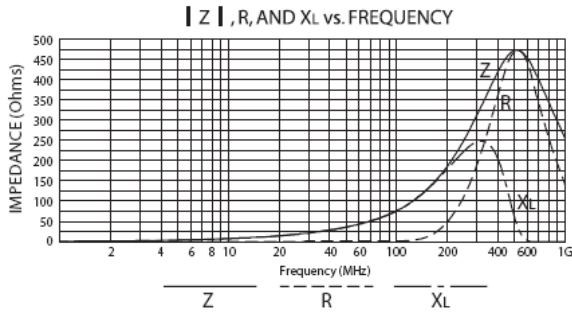
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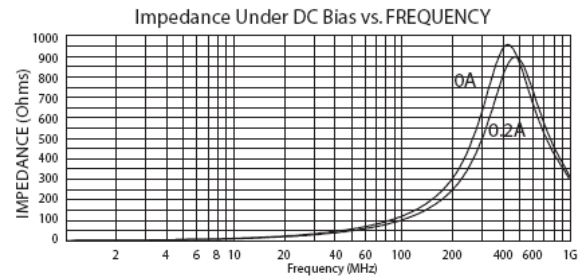
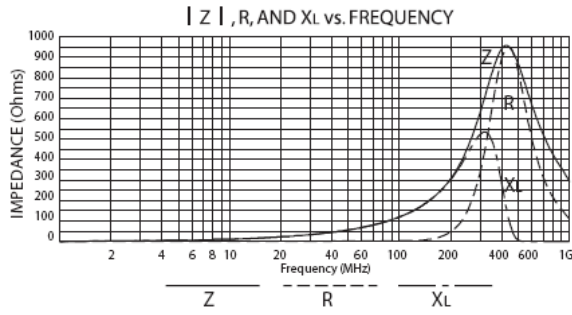
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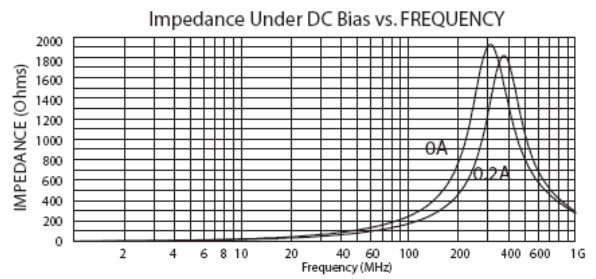
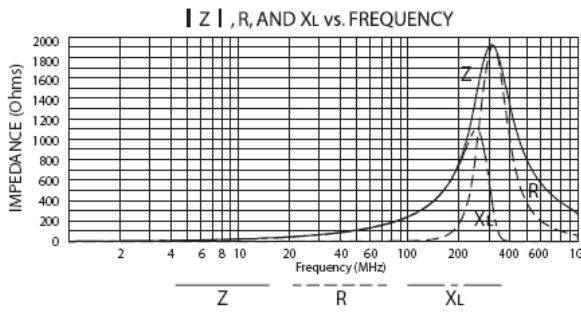
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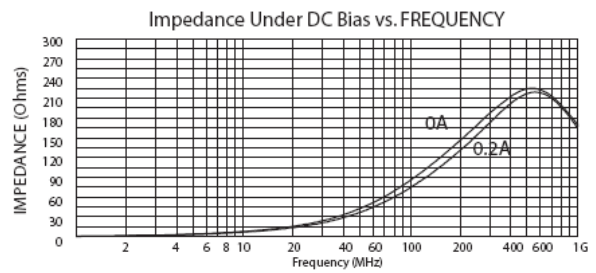
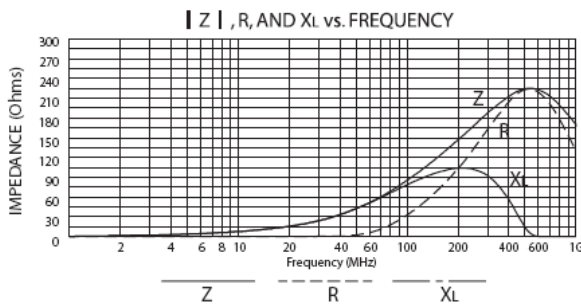
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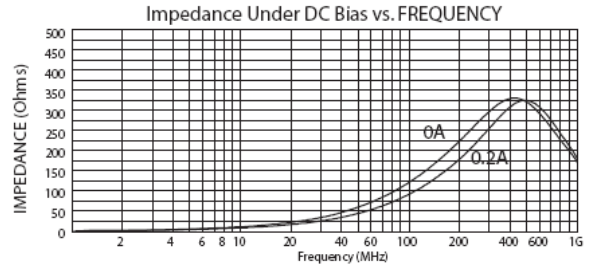
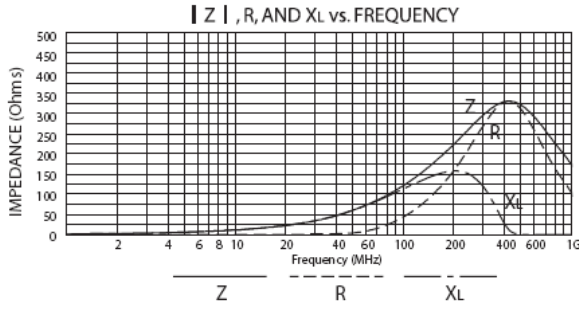
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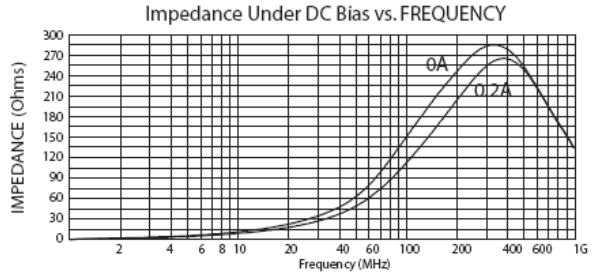
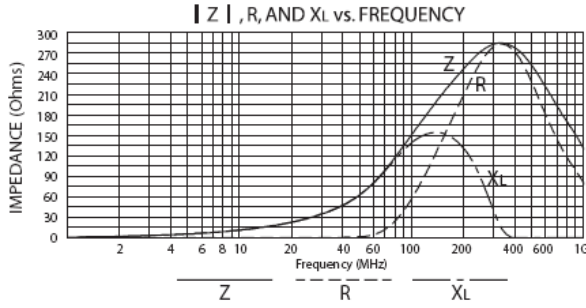
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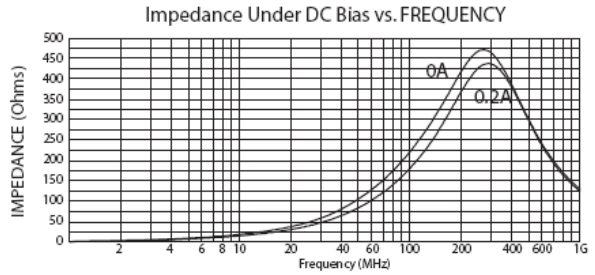
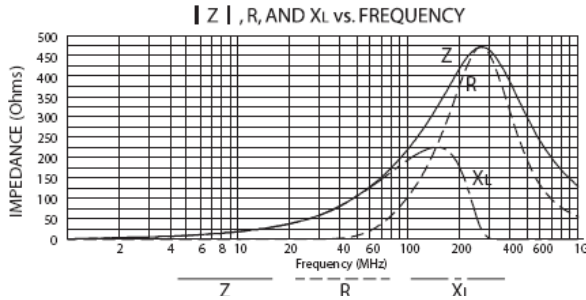
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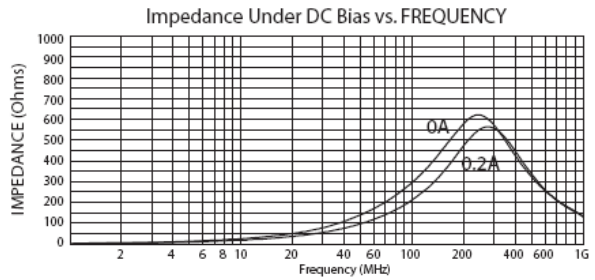
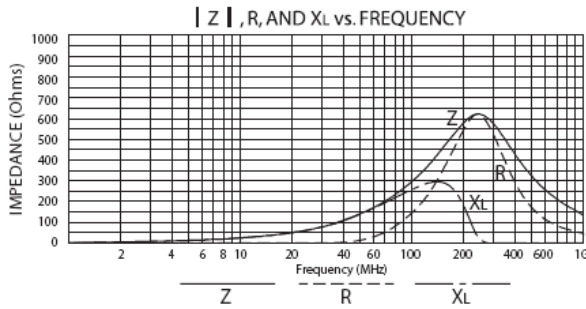
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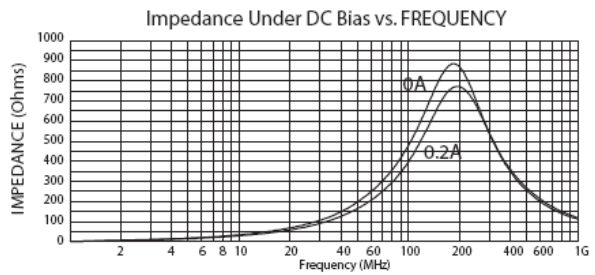
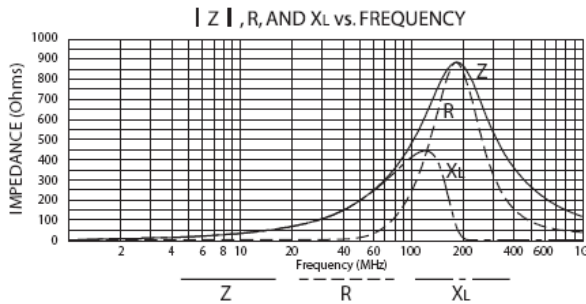
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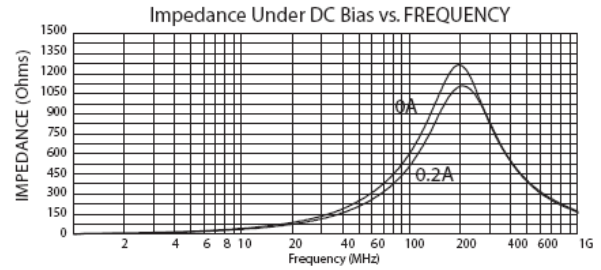
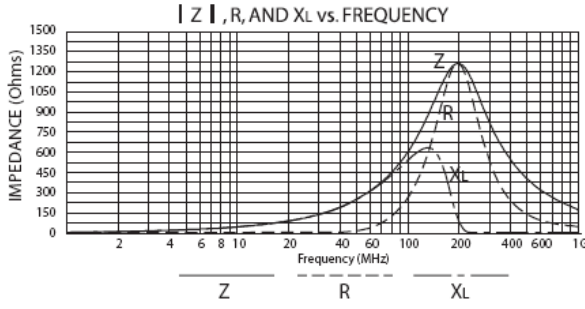
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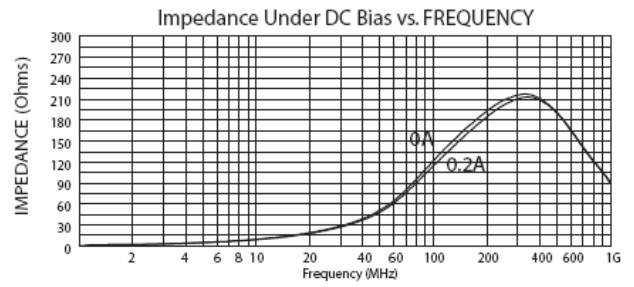
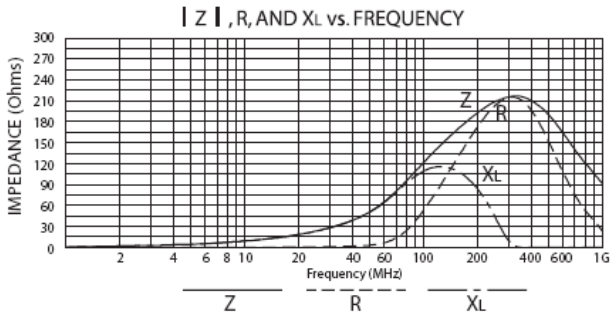
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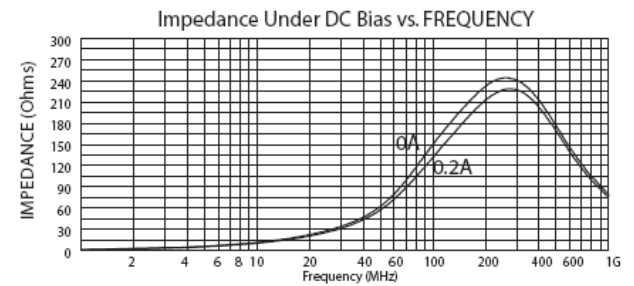
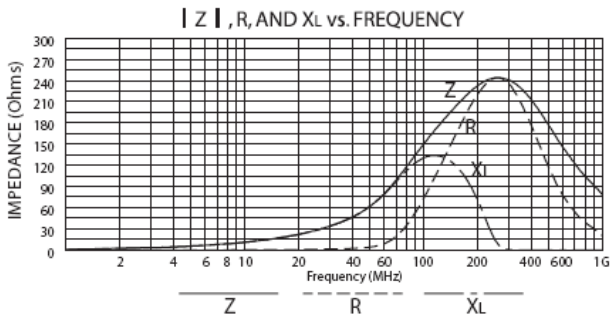
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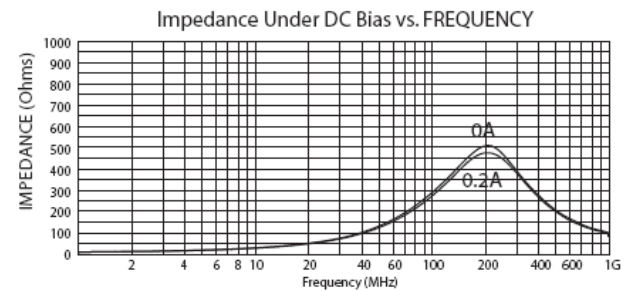
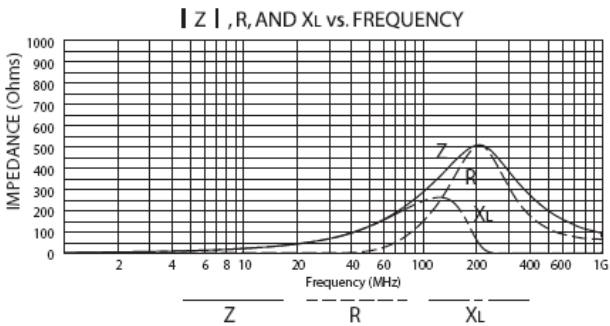
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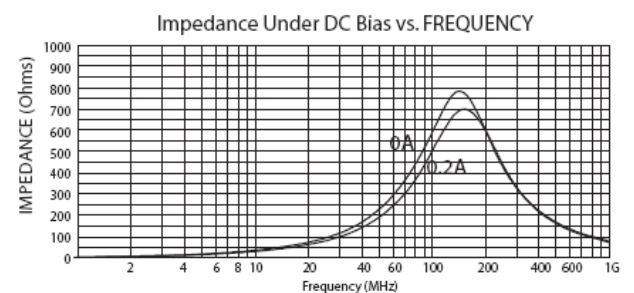
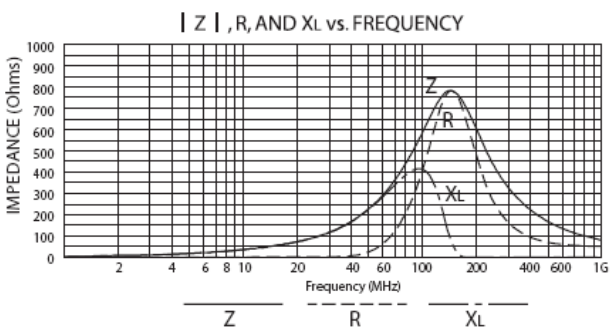
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**MCB3216H301E**



**MCB3216H601E**



## ◆ Package

Size (EIA)	1005 (0402)	1608 (0603)	2012 (0805)
Standard packing Quantity(pcs/reel)	10,000	4,000	4,000