

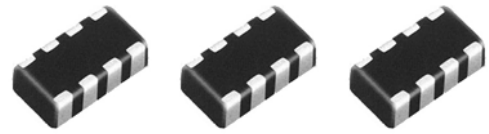
### ◆ Feature

1. Combines 4 single 1608 (EIA 0603) chips into one package 3216 (EIA 1206) to reduce board space and placement time
2. The 0.8mm terminal pitch makes easy to apply EMI prevention in multiple-lines such as connectors and IC pins
3. Material and construction design minimize cross talk between adjacent circuits
4. Effective filtering capability over a wide range of frequency

### ◆ 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, high frequency EMI prevention of computer, printers, VCRs, TVs and portable telephones.

RoHS



### ◆ How to Order

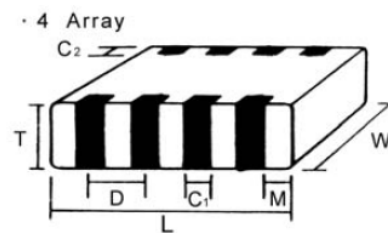
**M4A** **3216** **S** **12** **1** **E** **B** **--**  
 (1) (2) (3) (4) (5) (6) (7) (8)

- (1) Series Type
- (2) 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: 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)	2010 (0804)	3216 (1206)
L	2.00 $\pm$ 0.20	3.20 $\pm$ 0.20
W	1.00 $\pm$ 0.20	1.60 $\pm$ 0.20
T	0.55 $\pm$ 0.10	0.80 $\pm$ 0.10
C1	0.25 $\pm$ 0.15	0.45 $\pm$ 0.15
C2	0.25 $\pm$ 0.15	0.30 $\pm$ 0.20
D	0.50 $\pm$ 0.10	0.80 $\pm$ 0.10



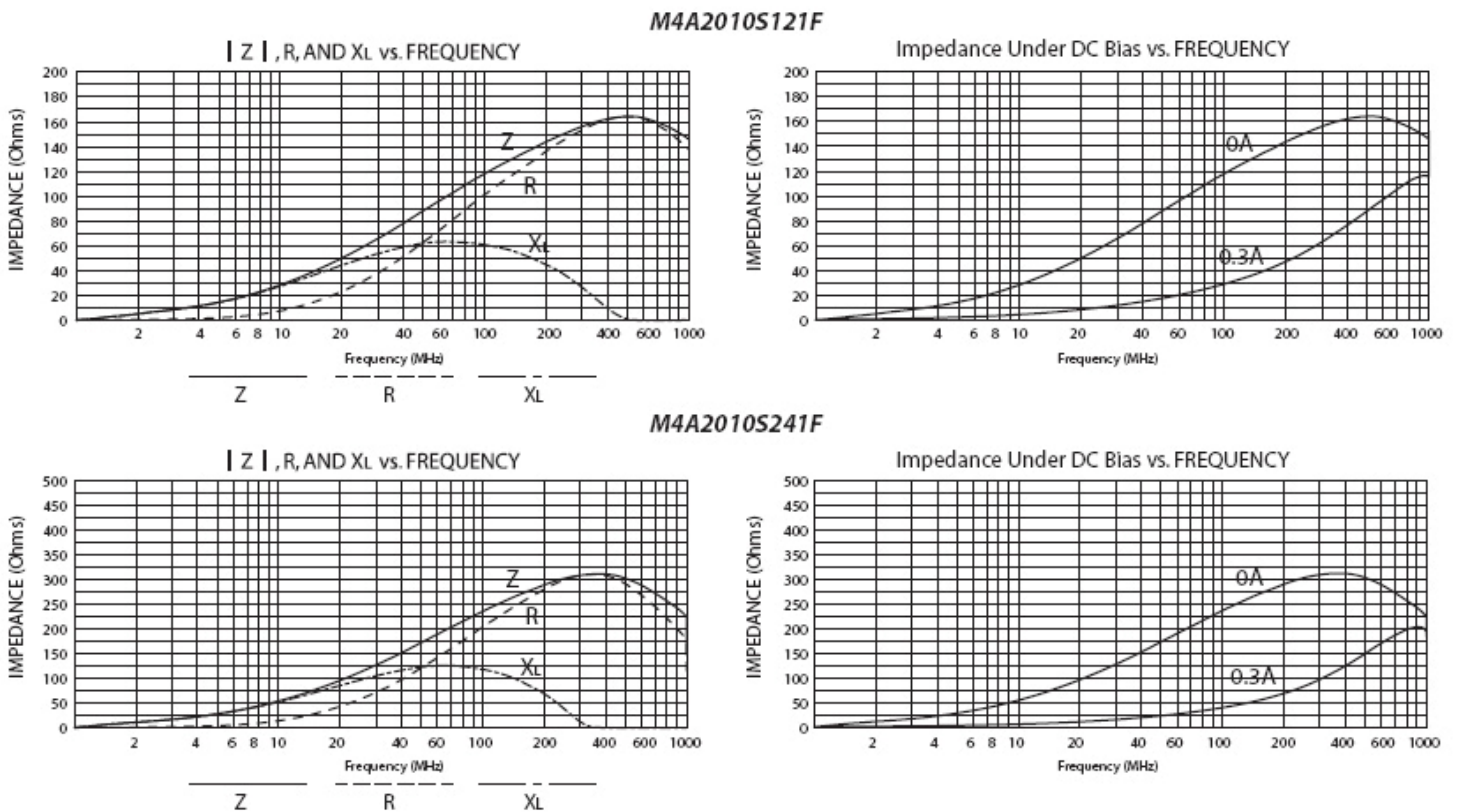
◆ Specification

Part Number	Impedance +/- 25% ( $\Omega$ )	Test Freq. (MHz)	DCR ( $\Omega$ ) Max	Rated Current (mA)
<b>2010 (EIA 0804)</b>				
M4A2010S121FBP	120	100	0.30	300
M4A2010S241FBP	240	100	0.40	300
M4A2010S301EBP	300	100	0.60	200
M4A2010S471EBP	470	100	0.90	200
M4A2010S601EBP	600	100	1.00	200
<b>3216 (EIA 1206)</b>				
M4A3216S600FBE	60	100	0.12	300
M4A3216S121EBE	120	100	0.20	200
M4A3216S301EBE	300	100	0.40	200
M4A3216S601CBE	600	100	0.60	100
M4A3216S102ABE	1000	100	0.80	50

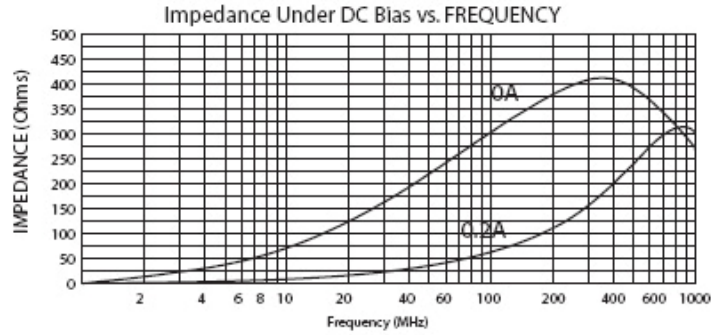
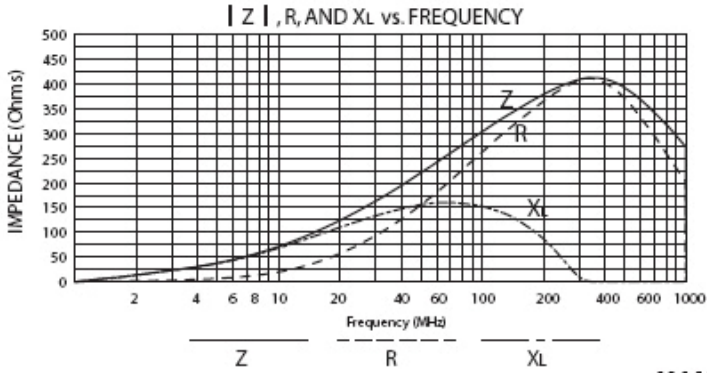
◆ General Technical Data

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

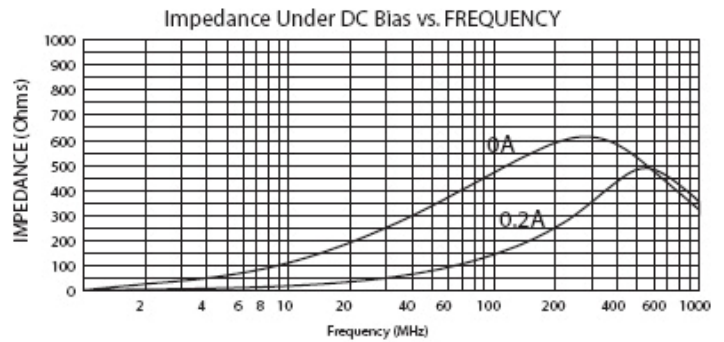
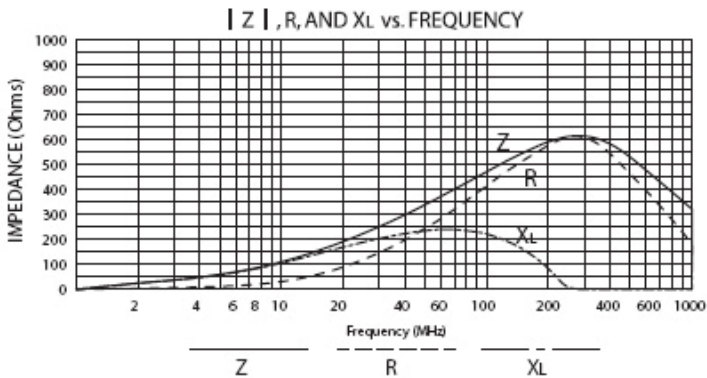
◆ Impedance vs. Frequency



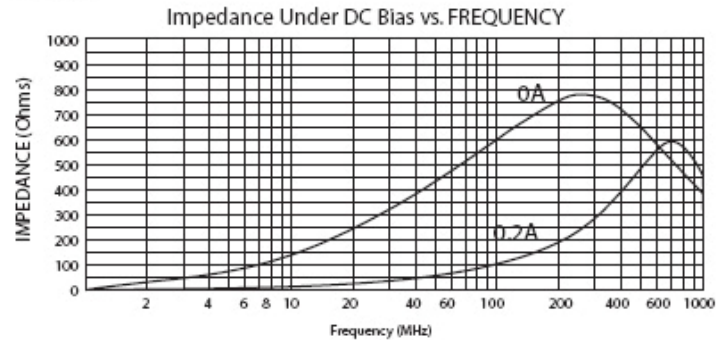
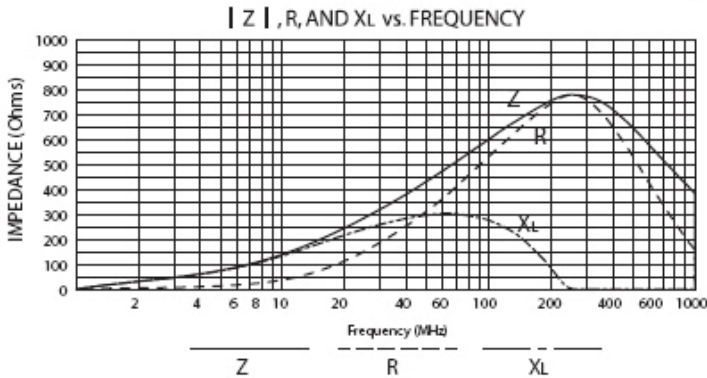
**M4A2010S301E**



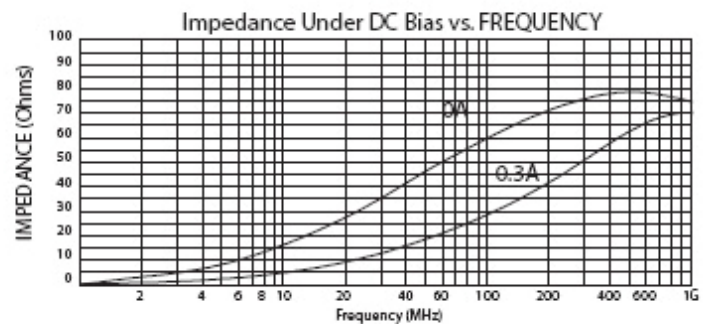
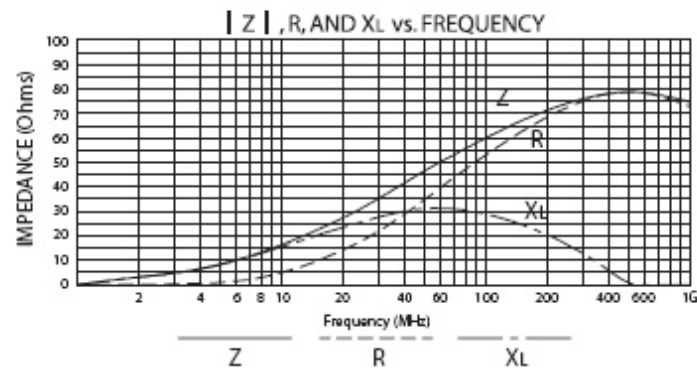
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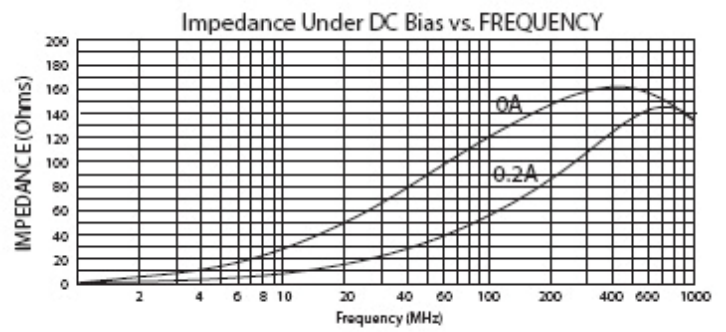
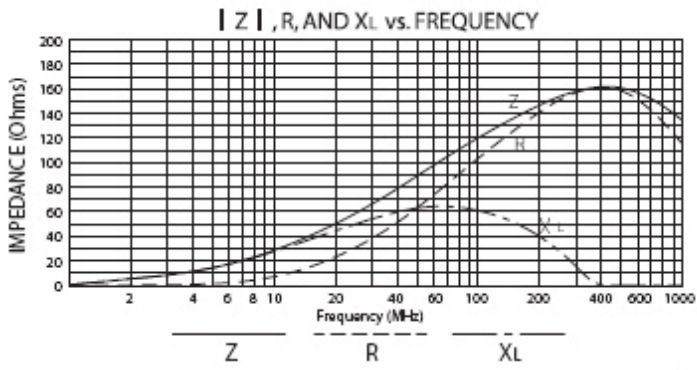
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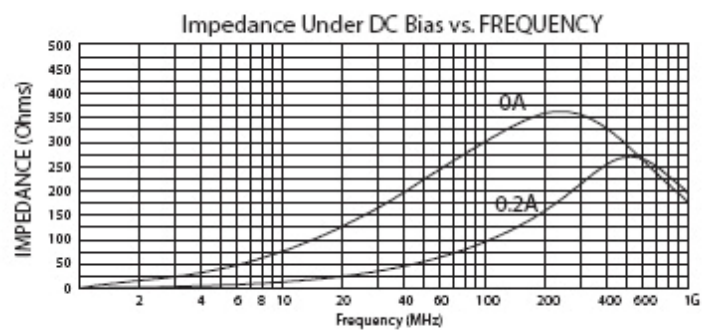
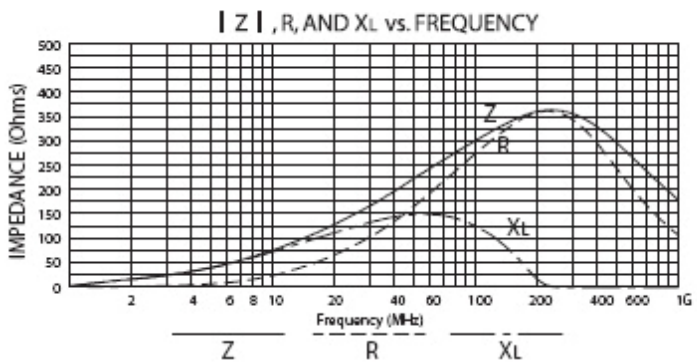
**M4A3216S600F**



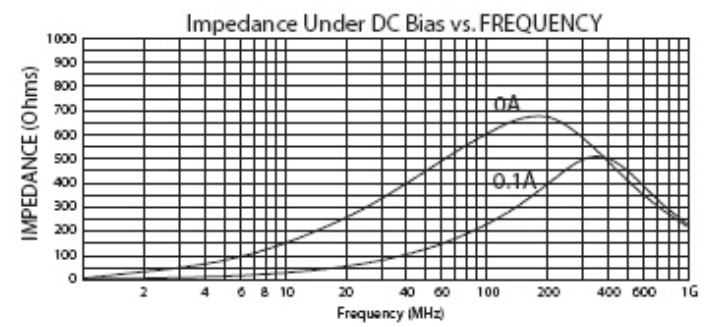
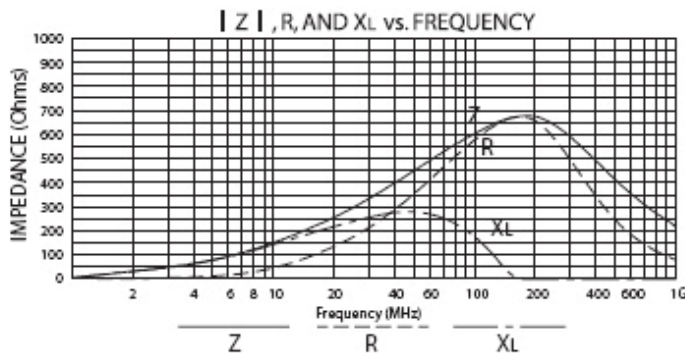
M4A3216S121E



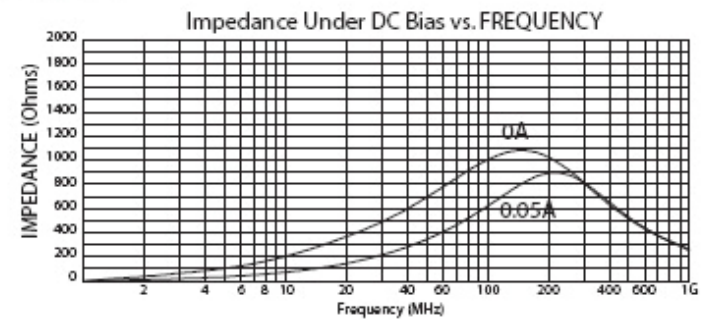
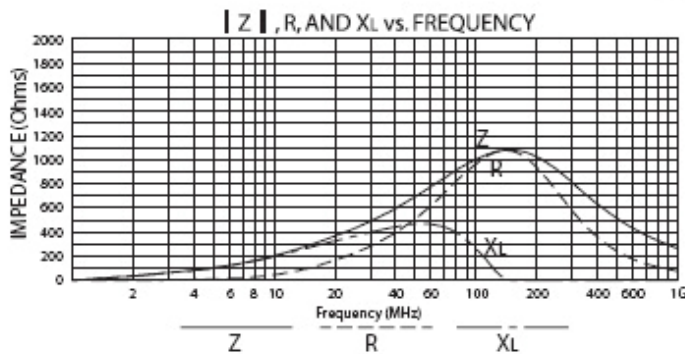
M4A3216S301E



M4A3216S601C



M4A3216S102A



## ◆ Package

Size (EIA)	2010 (0804)	3216 (1206)
Standard packing Quantity (pcs/reel)	4,000	3,000