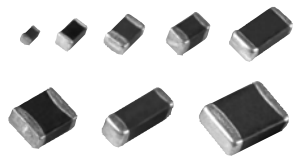
On-Board Type EMI Suppression Filters

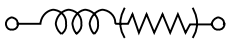
TAI-TECH

Ferrite Chip Bead **FCB,FCM1005/1608/2012/3216/3225/4516/4532** Series

FCB/FCM Series



■ Equivalent Circuit Diagram



(Resistance element becomes dominant at high frequency)

■ Features

1.Monolithic inorganic material construction.
2.Closed magnetic circuit avoids crosstalk.
3.S.M.T. type.
4.Suitable for flow and reflow soldering.
5.Shapes and dimensions follow E.I.A. spec.
6.Available in various sizes.
7.Excellent solderability and heat resistance.
8.High realiability.
9.The products contain no lead and also support lead-free soldering.

● 特徵

1. 單石無機材料結構。
2. 封閉磁路避免干擾。
3. 表面黏著型式。
4. 適合一般焊接及迴焊。
5. 形狀及尺寸符合E.I.A.規格。
6. 不同尺寸可供選擇。
7. 良好的焊錫性及耐熱性。
8. 高可靠度。
9. 產品無鉛適合無鉛銲錫。

■ Applications

Personal computers,communication equipment,digital telephone,electronic games machines,CRTs,hard disk drives,cellular phones,PDAs,printers and other computer peripheral products.
Suitable for I/O ports,DC power lines and signal lines,and general circuits with unstable ground.

● 應用

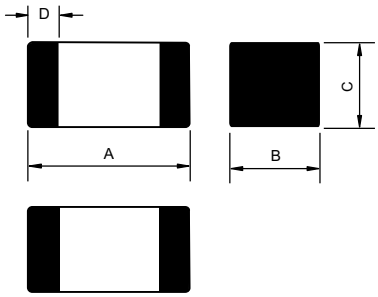
個人電腦、通訊設備、數位電話、電子遊戲機、陰極射線管、硬式磁碟機、行動電話、個人數位助理、列表機和其他電腦周邊設備。
適合接地不穩定之輸入/輸出埠、直流電源線、訊號線及一般電路。

■ Lead Free Part Numbering

FCM	1608	K	F	–	601	T	02
A	B	C	D		E	F	G

A : Series
B : Dimension A x B
C : Material Lead Free
D : Lead Free Code
E : Impedance 601=600Ω
F : Packaging T=Taping and Reel, B=Bulk(Bags)
G : Rated Current 02=200mA

■ Dimensions



Chip size				
Size	A(mm)	B(mm)	C(mm)	D(mm)
1005	1.0±0.1	0.5±0.1	0.5±0.1	0.25±0.1
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3
3216	3.2±0.2	1.6±0.2	1.1±0.2	0.5±0.3
3225	3.2±0.2	2.5±0.2	1.3±0.2	0.5±0.3
4516	4.5±0.2	1.6±0.2	1.6±0.2	0.5±0.3
4532	4.5±0.2	3.2±0.2	1.5±0.2	0.5±0.3

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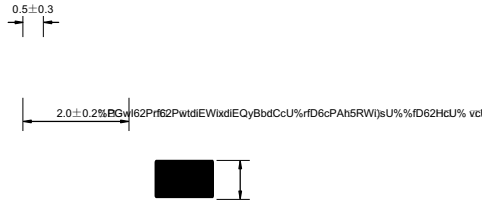
■ FCB/FCM2012 Series



Part Number	Impedance (Ohm)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ohm) max.
FCB2012K-110T09	11±25%	100	900	0.1
FCB2012K-170T06	17±25%	100	600	0.1
FCB2012K-260T06	26±25%	100	600	0.1
FCB2012K-300T06	30±25%	100	600	0.1
FCB2012K-400T06	40±25%	100	600	0.1
FCM2012K-600T09	60±25%	100	900	0.10
FCM2012K-121T08	120±25%	100	800	0.20
FCM2012K-151T08	150±25%	100	800	0.20
FCM2012K-221T07	220±25%	100	750	0.30
FCM2012K-301T07	300±25%	100	700	0.30
FCM2012K-471T07	470±25%	100	700	0.35
FCM2012K-601T05	600±25%	100	500	0.40
FCM2012K-801T04	800±25%	100	450	0.40
FCM2012K-102T04	1000±25%	100	400	0.45
FCM2012H-102T04	1000±25%	100	400	0.45
FCM2012H-152T03	1500±25%	100	350	0.50
FCM2012H-202T02	2000±25%	100	250	0.60
FCM2012H-232T02	2300±25%	100	200	0.80
FCM2012H-272T01	2700±25%	100	150	1.1
FCB2012N-070T06	7±25%	100	600	0.1
FCM2012C-300T07	30±25%	100	700	0.20
FCM2012C-600T07	60±25%	100	700	0.20
FCM2012C-121T06	120±25%	100	600	0.25
FCM2012C-151T06	150±25%	100	600	0.25
FCM2012C-221T04	220±25%	100	400	0.30
FCM2012C-301T04	300±25%	100	400	0.35
FCM2012C-471T04	470±25%	100	400	0.40
FCM2012C-601T03	600±25%	100	300	0.45
FCM2012C-102T02	1000±25%	100	200	0.50
FCM2012W-121T03	120±25%	100	300	0.15
FCM2012W-151T03	150±25%	100	300	0.20
FCM2012W-221T02	220±25%	100	250	0.30
FCM2012W-301T02	300±25%	100	200	0.35
FCM2012W-471T02	470±25%	100	200	0.40
FCM2012W-601T02	600±25%	100	200	0.45
FCM2012W-801T01	800±25%	100	150	0.55
FCM2012W-102T01	1000±25%	100	100	0.65

*note:Dimension C=1.25 ± 0.2mm

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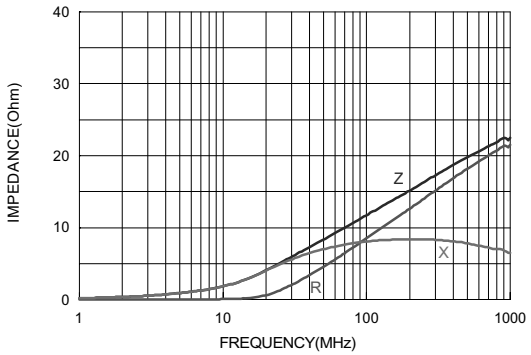
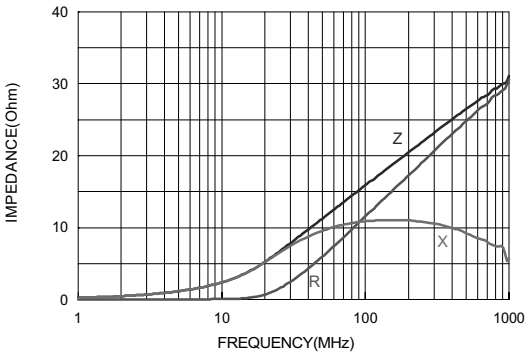
■ Typical Impedance v.s. Frequency Curve

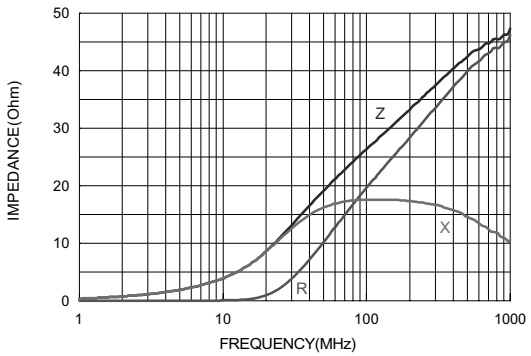
FCB2012K-110T09



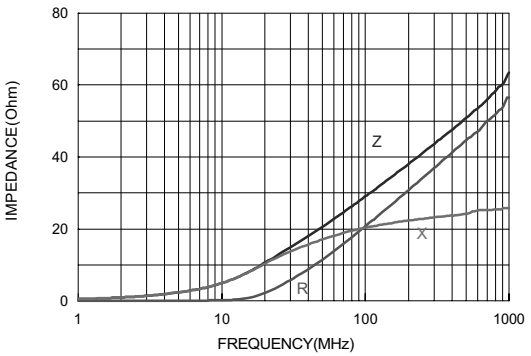
FCB2012K-170T06



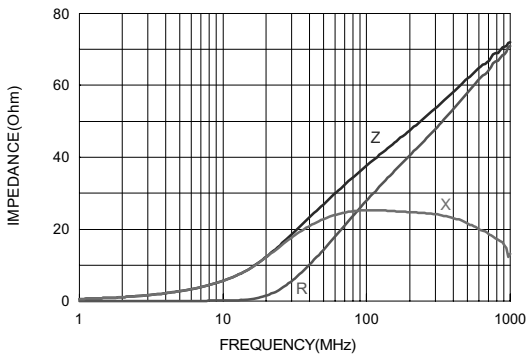
FCB2012K-260T06



FCB2012K-300T06



FCB2012K-400T06



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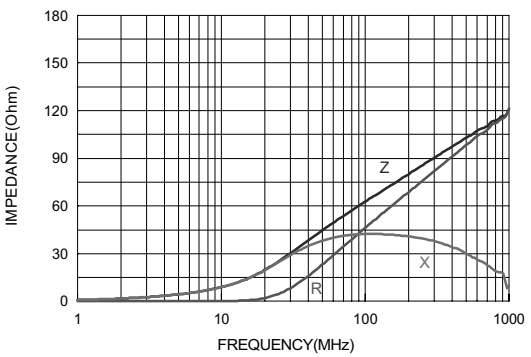

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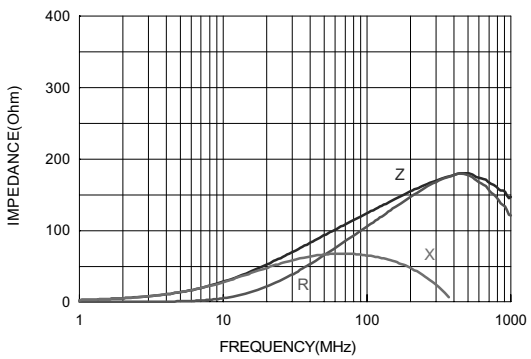

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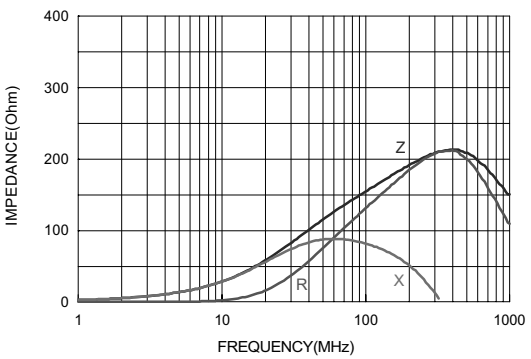

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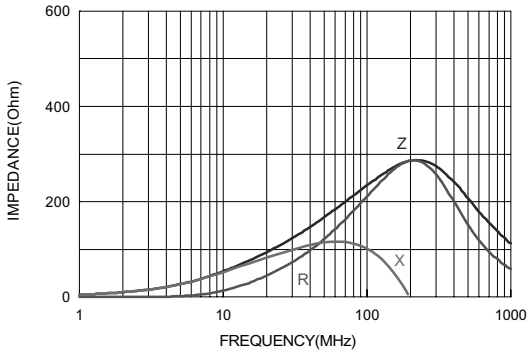
■ Typical Impedance v.s. Frequency Curve

FCM2012K-221T07



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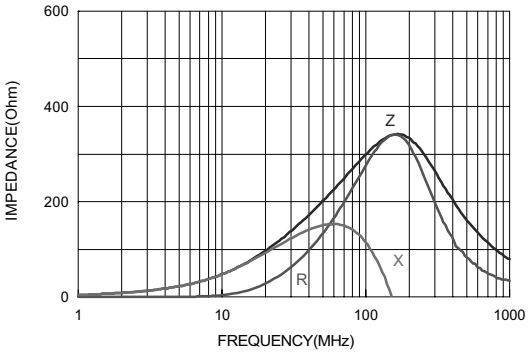

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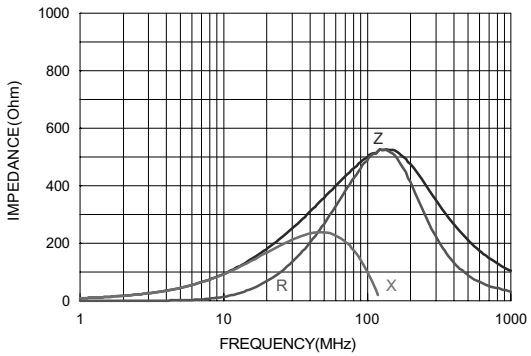
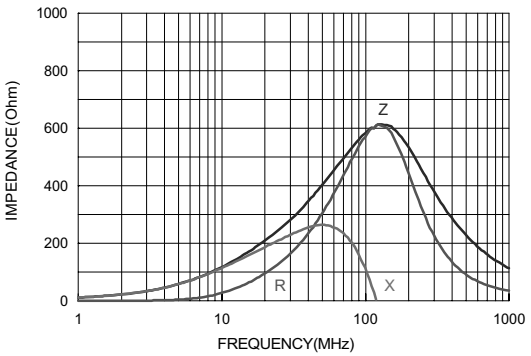
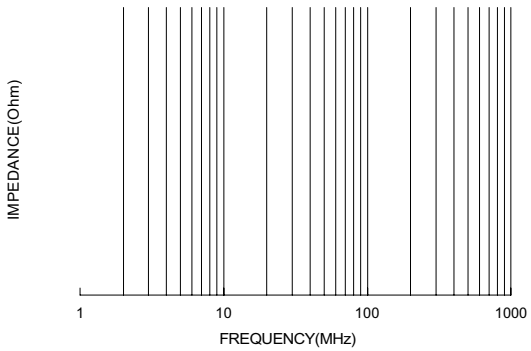


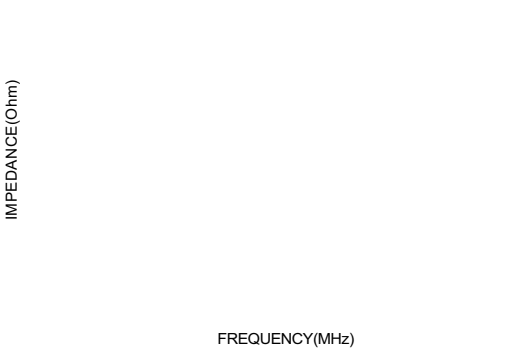
FCM2012K-601T05



FCM2012K-801T04



FCM2012K-102T04



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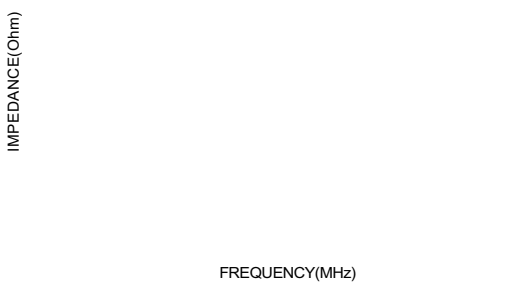

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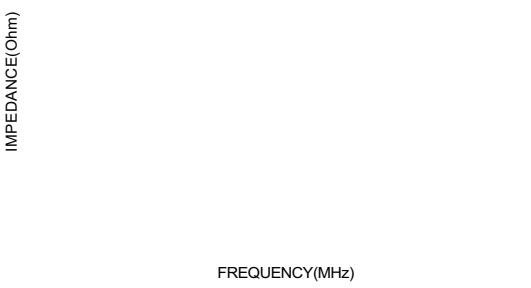

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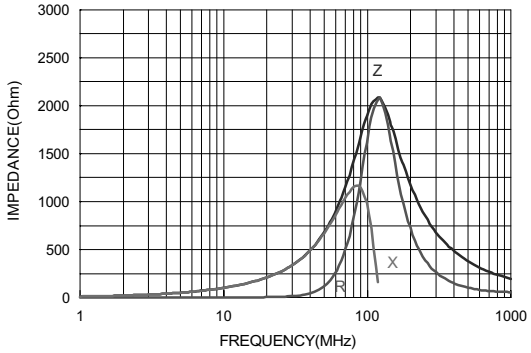
■ Typical Impedance v.s. Frequency Curve

FCM2012H-202T02



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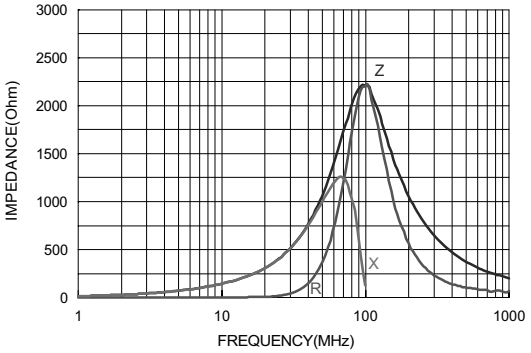

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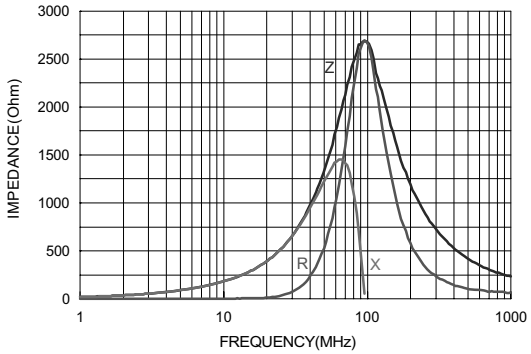
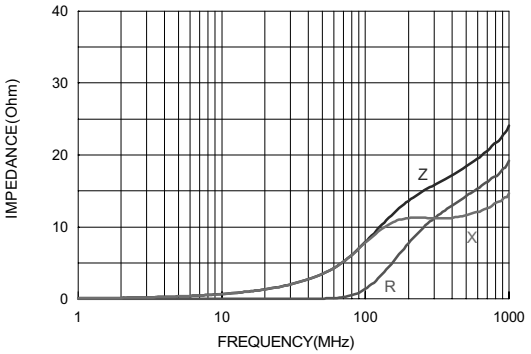
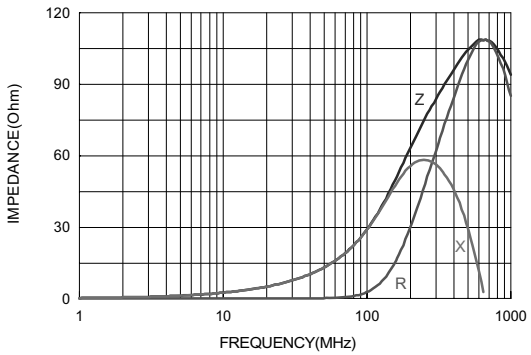


FCB2012N-070T06



FCM2012C-300T07



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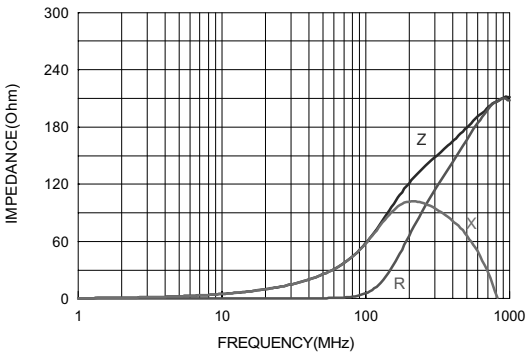
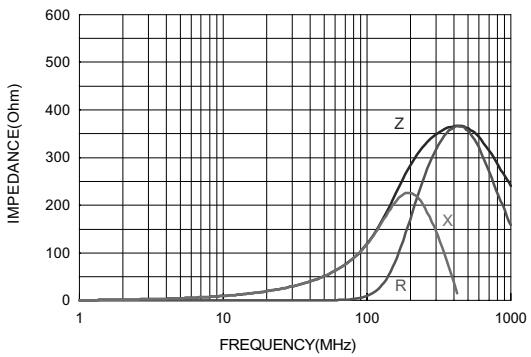


FCM2012C-121T06



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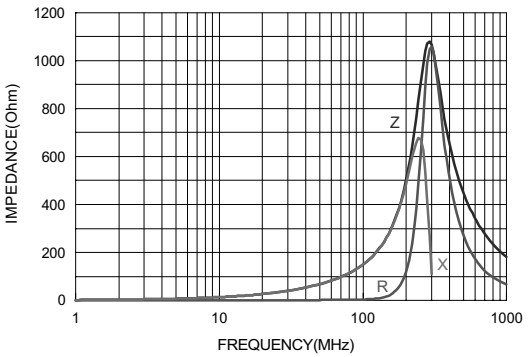

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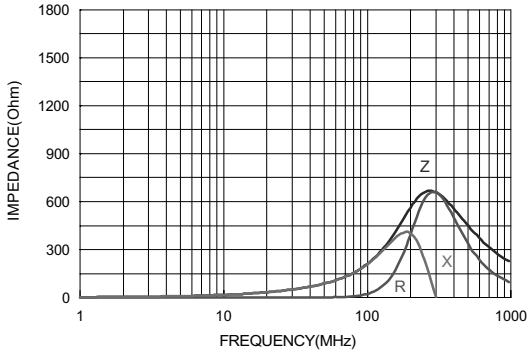
■ Typical Impedance v.s. Frequency Curve

FCM2012C-221T04



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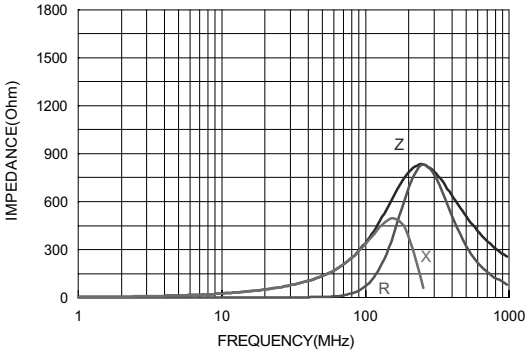

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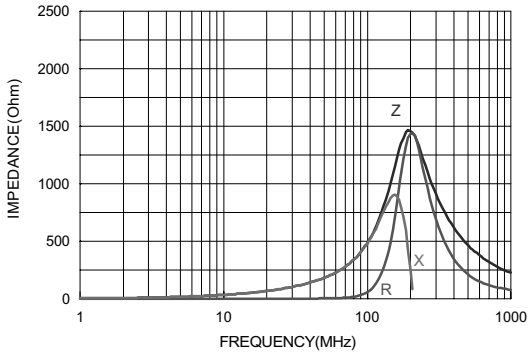

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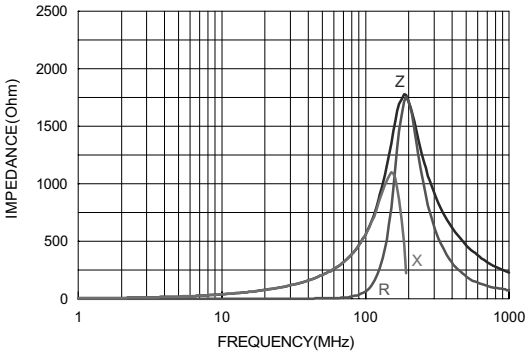

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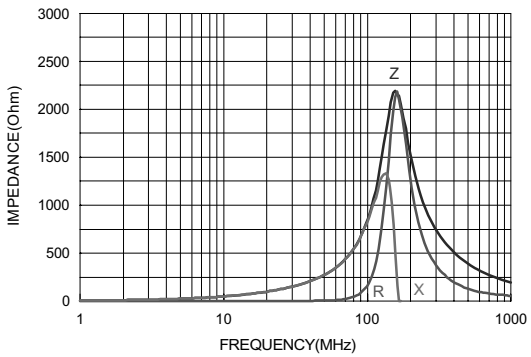

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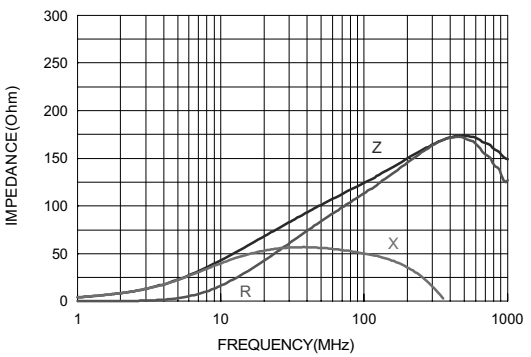

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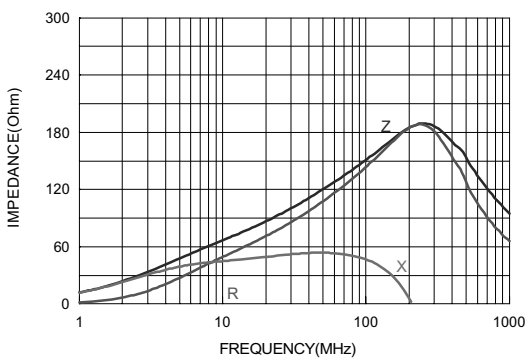

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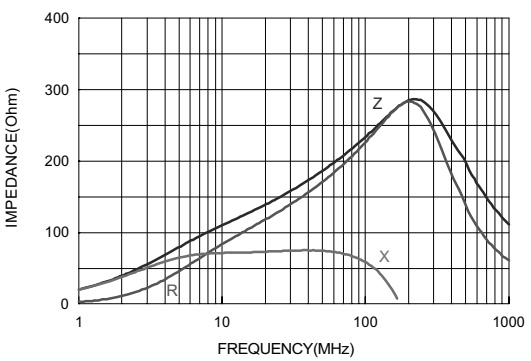

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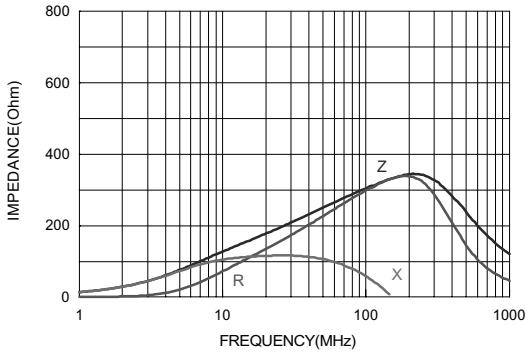
■ Typical Impedance v.s. Frequency Curve

FCM2012W-301T02



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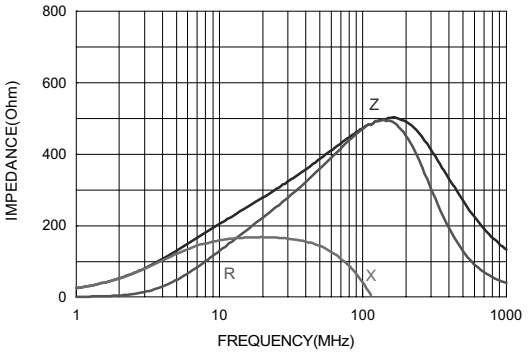

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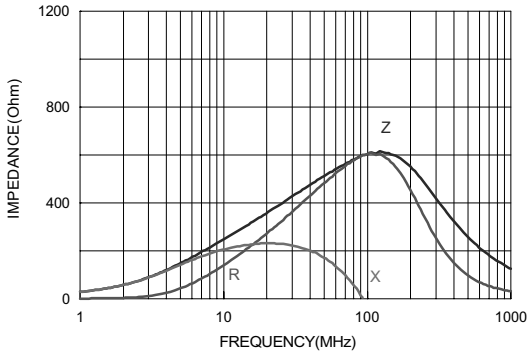

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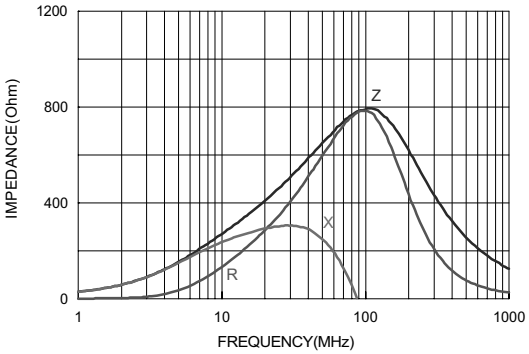

FCM2012W-102T01