

On-Board Type EMI Suppression Filters



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

FCB/FCM Series



■ 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 reliability.
9. The products contain no lead and also support lead-free soldering.

■ Applications

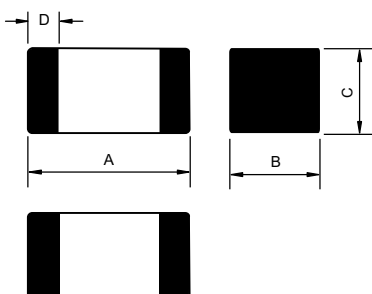
Personal computers, communication equipment, digital telephone, electronic games machines, CRTs, hard disk drives, cellular phones, PDAs, printers and other computer peripheral products.
Suitable for I/O ports, DC power lines and signal lines, and general circuits with unstable ground.

■ Lead Free Part Numbering

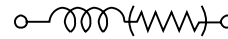
FCM 1608 K F - 601 T 02
A B C D E F G

- 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



■ Equivalent Circuit Diagram



(Resistance element becomes dominant at high frequency)

● 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. 產品無鉛適合無鉛錫錫。

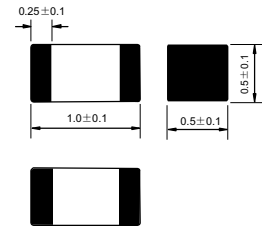
● 應用

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。

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

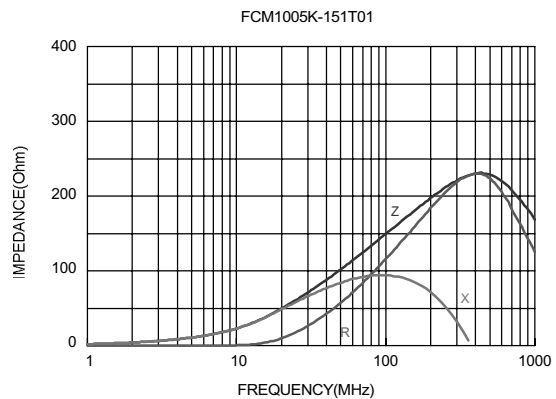
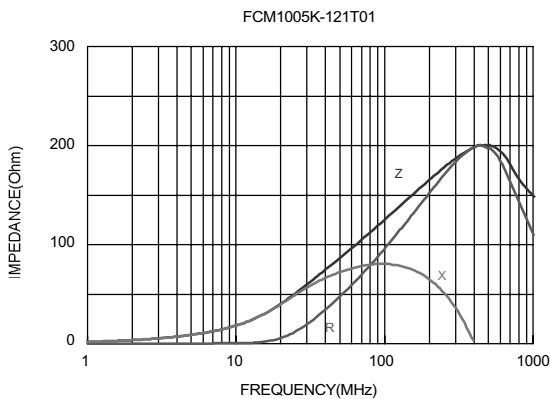
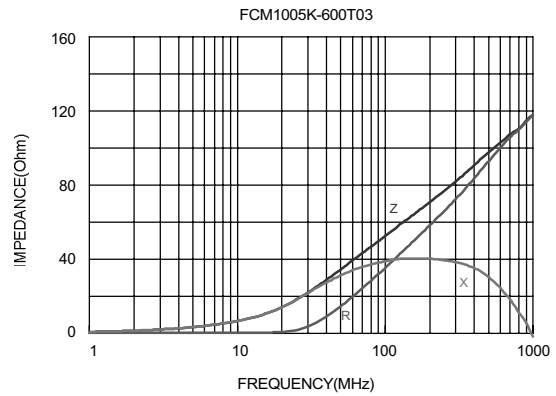
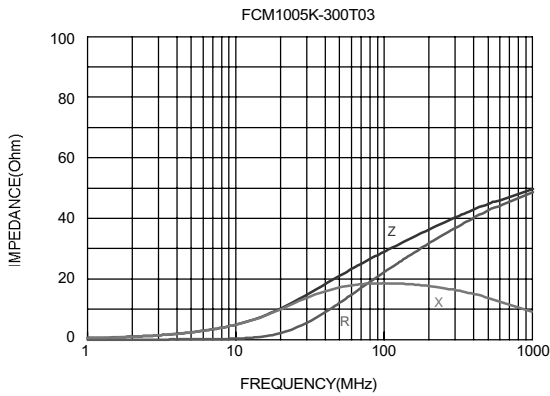
- All the data listed in this catalogue are for reference only, TAI-TECH reserves the right to alter or revise the specifications without prior notification.

■ FCM1005 Series



Part Number	Impedance (Ohm)	Test Frequency (MHz)	Rated Current (mA) max.	DCR (Ohm) max.
FCM1005K-300T03	30 ± 25%	100	300	0.20
FCM1005K-600T03	60 ± 25%	100	300	0.25
FCM1005K-121T01	120 ± 25%	100	100	0.30
FCM1005K-151T01	150 ± 25%	100	100	0.30
FCM1005K-221T01	220 ± 25%	100	100	0.40
FCM1005K-301T01	300 ± 25%	100	100	0.50
FCM1005K-471T01	470 ± 25%	100	100	0.65
FCM1005K-601T00	600 ± 25%	100	80	0.80
FCM1005M-600T01	60 ± 25%	100	100	0.30
FCM1005M-121T00	120 ± 25%	100	80	0.45
FCM1005M-221T00	220 ± 25%	100	50	0.60
FCM1005M-301T00	300 ± 25%	100	50	0.75

■ Typical Impedance v.s. Frequency Curve



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■ Typical Impedance v.s. Frequency Curve

