



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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Multi-Layer Ferrite Chip Beads

GHz range noise suppression FC 160808(0603) series

A. Electrical specifications:

Part Number	Impedance (OHM)@ 100 MHz	DCR (OHM) max.	I (mA) max.
FC160808Z471	470 ± 25%	0.85	200
FC160808Z601	600 ± 25%	1.00	200
FC160808Z102	1000 ± 25%	1.60	100
FC160808G301	300 ± 25%	1.05	100
FC160808G471	470 ± 25%	1.20	100
FC160808G601	600 ± 25%	1.50	100
FC160808G102	1000 ± 25%	1.85	50

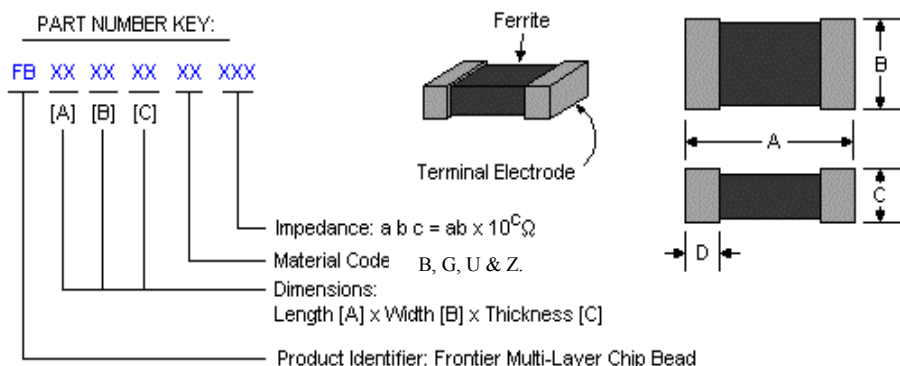
B. Materials:

ITEM	UNIT	Material Code			
		B	G	U	Z
Initial Permeability (μ_{iac}):	----	45	110	200	500
Maximum Permeability (μ_m):	----	125	250	450	900
Saturation Flux Density at 10 Oe (Bs):	Gauss	2000	1700	1400	1500
Curie Temperature (Tc):	°C	>200	>130	>130	>100
Volume Resistivity (ρ):	Ω -m	100000	100000	100000	100000
Temperature Coefficient:	1/10000°C	10	13	12	5
Density:	g/cm ³	4.8	4.8	4.8	4.8

C. Dimensions: [Unit: mm /(inch)]

Package Size	A	B	C	D
160808 (0603)	1.6 ± 0.2 (0.063 ± 0.008)	0.8 ± 0.2 (0.031 ± 0.008)	0.8 ± 0.2 (0.031 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)

D. Part Number Key & Mechanical drawing:



FB: for Standard and high impedance series.

TI: for high current series.

FC: for GHz range noise suppression series.



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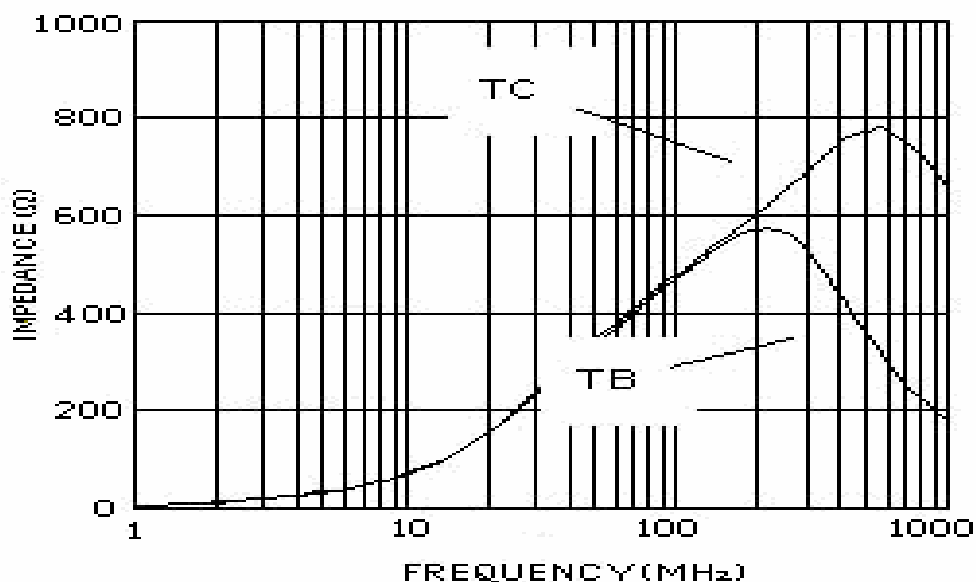
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E. Features:

1. The characteristics for FC-series at frequencies below 100MHz are similar of FB-series, but the impedance of FC-series is approximately 3 times higher than those of FB-series when works at 1 GHz.
2. High-density packaging with a pitch of 2.54 mm (0.1 Inch) max. is possible. This series require less space and have greater EMI suppression effects.
3. Excellent in physical properties, such as terminal strength, flexure strength, soldering resistance and solder-ability.
4. Applicable to both flow and IR re-flow soldering.
5. Significant impedance across a broad range of frequencies.



F. Applications:

1. For high-speed signal lines communication, such as high-speed CPU and data bus.
2. Telecommunication equipment and other digital equipment.
3. **RoHS** compliant.