



Frontier Electronics Corp.

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Multi-Layer Ferrite Chip Beads--High Impedance FB160808 (0603) series

A. Electrical specifications:

Part Number	Impedance (OHM)@ 100 MHz	DCR (OHM) max.	I (mA) max.
FB160808Z600	60 ± 25%	0.20	300
FB160808Z800	80 ± 25%	0.20	300
FB160808Z121	120 ± 25%	0.20	200
FB160808Z221	220 ± 25%	0.20	200
FB160808Z301	300 ± 25%	0.35	200
FB160808Z451	450 ± 25%	0.40	250
FB160808Z102	1000 ± 25%	0.60	100
FB160808U600	60 ± 25%	0.20	300
FB160808U800	80 ± 25%	0.20	300
FB160808U121	120 ± 25%	0.20	200
FB160808U221	220 ± 25%	0.20	200
FB160808U301	300 ± 25%	0.35	200
FB160808U451	450 ± 25%	0.40	200
FB160808U601	600 ± 25%	0.45	200
FB160808U102	1000 ± 25%	0.60	100
FB160808G600	60 ± 25%	0.20	300
FB160808G800	80 ± 25%	0.20	300
FB160808G121	120 ± 25%	0.20	200
FB160808G221	220 ± 25%	0.20	200
FB160808G301	300 ± 25%	0.35	200
FB160808G451	450 ± 25%	0.40	200
FB160808G601	600 ± 25%	0.45	200
FB160808G102	1000 ± 25%	0.60	100
FB160808G152	1500 ± 25%	0.70	50
FB160808G202	2000 ± 25%	0.80	50
FB160808B400	40 ± 25%	0.30	300
FB160808B600	60 ± 25%	0.30	300
FB160808B800	80 ± 25%	0.30	200
FB160808B121	120 ± 25%	0.30	200
FB160808B181	180 ± 25%	0.35	200
FB160808B221	220 ± 25%	0.40	200
FB160808B301	300 ± 25%	0.45	200
FB160808B601	600 ± 25%	0.65	200
FB160808B102	1000 ± 25%	0.80	50



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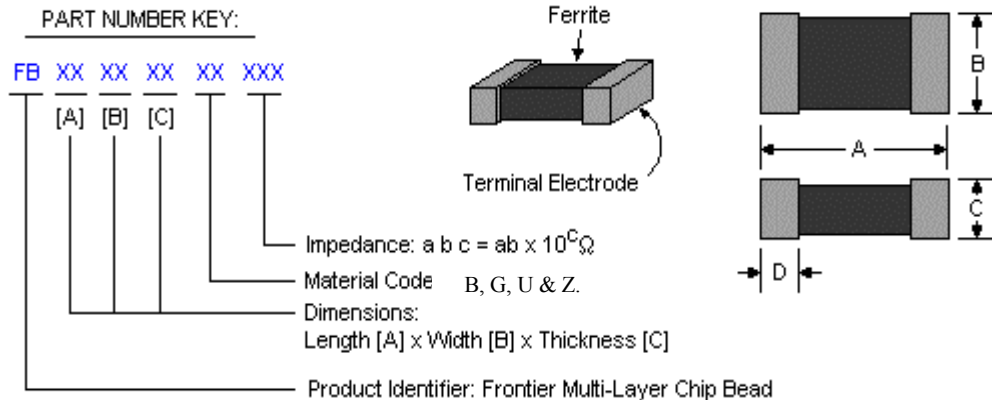
B. Materials:

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):	----	2000	1700	1400	1500
Curie Temperature (Tc):	Gauss	>200	>130	>130	>100
Volume Resistivity (ρ):	$^{\circ}\text{C}$	100000	100000	100000	100000
Temperature Coefficient:	$\Omega\text{-m}$	10	12	13	5
Density:	1/10000 $^{\circ}\text{C}$	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.

E. Features:

- 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.
- Excellent in physical properties, such as terminal strength, flexure strength, soldering resistance and solder-ability.
- Applicable to both flow and IR reflow soldering.
- High impedance covers wide frequency ranges.
- Z material is for applications whose blocking region is near 100 MHz.
- G material is for application whose signal frequency is far from the cut off region. Suitable for application requires low insertion loss at high frequency.
- The products have four types of material: Material B, G, U & Z. Different types with the same shape are available.
- Above part numbers on the table is for "LEADED" parts; for **RoHS** parts, please add "-LFR" at the end of our Part number.