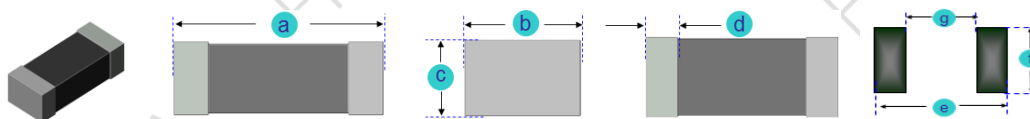


A. Electrical Specifications:

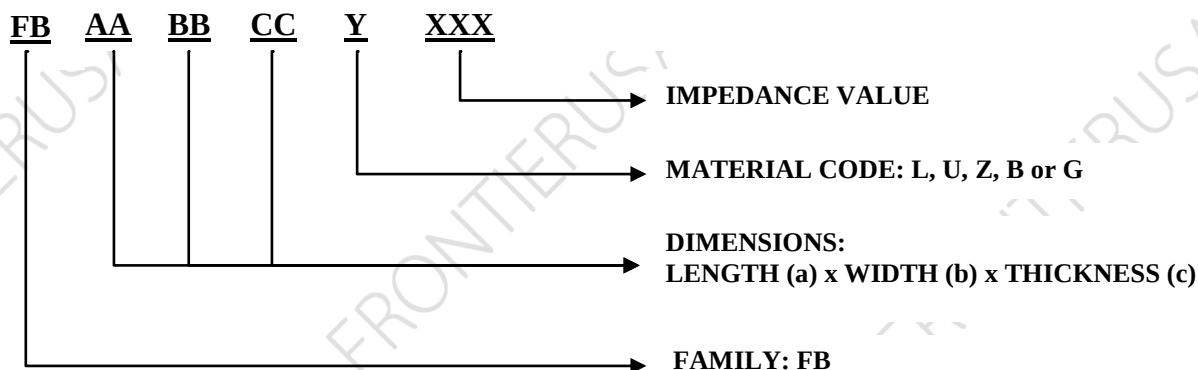
P/N	Impedance (Ω) $\pm 25\%$ @100MHz	DCR Max.(Ω)	I rms. Max.(A)
FB322513U310	31	0.2	0.4
FB322513U330	33	0.2	0.4
FB322513U520	52	0.2	0.4
FB322513U600	60	0.2	0.8
FB322513U900	90	0.3	0.3
FB322513B310	31	0.3	0.4
FB322513Z520	52	0.3	0.4
FB451616U600	60	0.1	0.8
FB451616U800	80	0.1	0.6
FB451616U121	120	0.2	0.5
FB451616U151	150	0.3	0.3
FB451616U181	180	0.25	0.5
FB451616Z800	80	0.1	0.6
FB451616Z121	120	0.1	0.6
FB451616Z151	150	0.2	0.5
FB451616Z171	170	0.25	0.5
FB453215U700	70	0.1	0.6
FB453215U800	80	0.1	0.6
FB453215U121	120	0.15	0.5
FB453215U131	130	0.15	0.5
FB453215Z121	120	0.3	0.3
FB453215B700	70	0.3	0.3

B. Dimensions: mm (In)

Series	a	b	c	d	e	f	g
FB322513	3.2 (0.126)	2.5 (0.098)	1.3 (0.051)	0.5 (0.020)	4.40 (0.173)	2.70 (0.106)	1.20 (0.047)
Tol.	± 0.2 (0.008)	± 0.2 (0.008)	± 0.2 (0.008)	± 0.3 (0.012)	Typ.	Typ.	Typ.
FB451616	4.5 (0.177)	1.6 (0.063)	1.6 (0.063)	0.5 (0.020)	5.80 (0.228)	1.80 (0.071)	2.00 (0.079)
Tol.	± 0.2 (0.008)	± 0.2 (0.008)	± 0.2 (0.008)	± 0.3 (0.012)	Typ.	Typ.	Typ.
FB453215	4.5 (0.177)	3.2 (0.126)	1.5 (0.059)	0.5 (0.020)	5.80 (0.228)	3.40 (0.134)	2.00 (0.079)
Tol.	± 0.2 (0.008)	± 0.2 (0.008)	± 0.2 (0.008)	± 0.3 (0.012)	Typ.	Typ.	Typ.



C. Part Number Key:

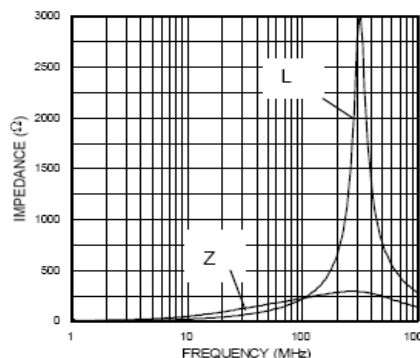
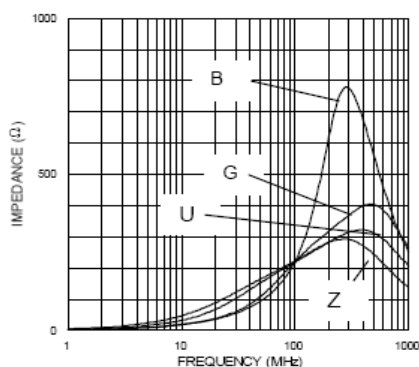


D. Materials:

ITEM	UNIT	Material Code				
		L	B	G	U	Z
Initial Permeability (μ_{iac}):	----	25	45	110	200	500
Maximum Permeability (μ_m):	----	125	125	250	450	900
Saturation Flux Density at 10 Oe:	Gauss	2000	2000	1700	1400	1500
Curie Temperature(T_c):	°C	>200	>200	>130	>100	>130
Volume Resistivity (ρ):	Ω -m	100000	100000	100000	100000	100000
Temperature Coefficient:	1/10000°C	10	10	13	5	12
Density:	g/cm ³	4.8	4.8	4.8	4.8	4.8

E. Impedance Characteristics of Materials:

- Z Material is for applications whose blocking regions are near 100 MHz.
- L Material, an improvement of B Material has sharp impedance characteristic at high frequency.
- 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.
- Different materials are available for different application range.
- With one material, higher impedance has sharper characteristics.
- Please confirm the signal wave form to choose suitable products.



F. General Information:

- FBAABBCC-yxxx, "FB" = Type, "AA" = Length, "BB" = Width, "CC" = Thickness, "y" = Material, "xxx" = Impedance.
- Tolerance: $\pm 25\%$
- Small and lightweight surface mounting type.
- Dimensions are suitable for automatic mounting
- High-density packaging with a pitch of 2.54 mm (0.1 inch) max. is possible. This series requires less space and have greater EMI suppression effects.
- Different types with the same shape are available.
- 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.
- TI series can be used in high current circuits due to its low DC resistance.
- Operating temperature: -55°C to +125°C
- Unspecified values available on request.
- MSL: Level 1.
- Impedance and Current range:
 - FB322513 (1206) Series: From 31 Ω (0.4 A) to 60 Ω (0.8 A)
 - FB451616 (1806) Series: From 60 Ω (0.8 A) to 180 Ω (0.5 A)
 - FB453215 (1812) Series: From 70 Ω (0.6 A) to 130 Ω (0.5 A)

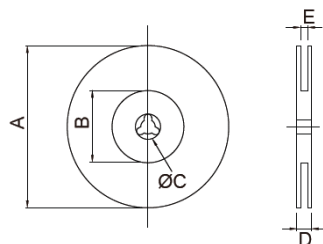
G. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers
- Mobile Communication Devices (Cell Phones, Radios, etc.)

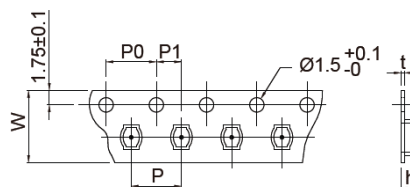
H. Supplementary Information:

1. Packaging Information

CARRIER TAPE REELS



TAPE DIMENSIONS (mm)



Plastic

Series P/N	Reel dimensions (mm)					Tape dimensions (mm)						Parts per reel		Quantity per	
	A	B	C	D	E	W	P	P0	P1	h	t	7"	13"	Box	Carton
FB/TI453215(1812)	180	75	13	16.5	14	12	8	4	2	1.85	0.23	1,000	---	---	40,000

2. RoHS Reflow Solder Profile

Typical RoHS Reflow Profile

