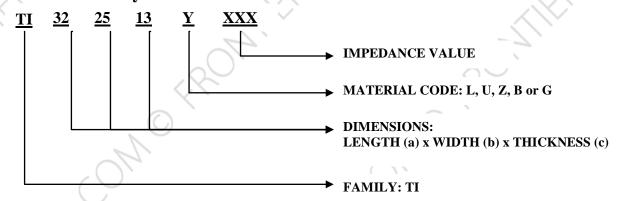


TI322513 (1206) Series SMD MULTILAYER FERRITE CHIP BEADS (HIGH CURRENT) Rev. A

A. Electrical Specifications:

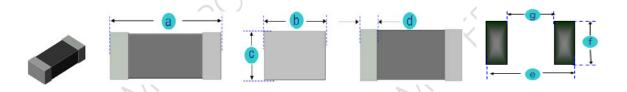
P/N	Impedance	DCR Max.	I rms. Max.	
	$(\Omega) \pm 25\% @100MHz$	(Ω)	(A)	
TI322513U300	30	0.050	3.0	
TI322513U520	52	0.050	3.0	
TI322513U600	60	0.030	4.0	
TI322513U650	65	0.030	3.5	
TI322513U151	150	0.020	5.0	

B. Part Number Key:



C. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
TI322513	3.2	2.5	1.3	0.5	4.40	2.70	1.20
(1206)	(0.126)	(0.098)	(0.051)	(0.020)	(0.173)	(0.106)	(0.047)
Tol.	± 0.2	± 0.2	± 0.2	± 0.3	Тур.	Typ.	Typ.



D. Materials:

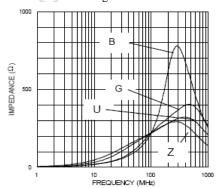
ITEM	UNIT	Material Code				
I I ENI	UNII	L	В	G	U	${f Z}$
Initial Permeability (µiac):		25	45	110	200	500
Maximum Permeability (µm):		125	125	250	450	900
Saturation Flux Density at 10 Oe:	Gauss	2000	2000	1700	1400	1500
Curie Temperature(Tc):	°C	>200	>200	>130	>100	>130
Volume Resistivity (ρ):	Ω-m	100000	100000	100000	100000	100000
Temperature Coefficient:	1/10000°C	10	10	13	5	12
Density:	g/cm³	4.8	4.8	4.8	4.8	4.8

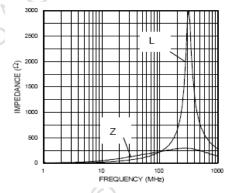


TI322513 (1206) Series SMD MULTILAYER FERRITE CHIP BEADS (HIGH CURRENT) Rev. A

E. Impedance Characteristics of Materials:

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





F. General Information:

- 1. TI322513-yxxx, "TI" = Type, "32" = Length, "25" = Width, "13" = Thickness, "y" = Material, "xxx" = Impedance.
- 2. Tolerance: ±25%
- 3. Small and lightweight surface mounting type
- 4. 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.
- 5. Excellent in physical properties, such as terminal strength, flexure strength, soldering resistance and solder-ability.
- 6. Applicable to both flow and IR reflow soldering.
- 7. High impedance covers wide frequency ranges.
- 8. TI series can be used in high current circuits due to its low DC resistance.
- 9. Operating temperature: -40° C to $+125^{\circ}$ C
- 10. Impedance and Current range: From 30 Ω (3000 mA) to 150 Ω (5000 mA)
- 11. Unspecified values available on request.
- 12. MSL: Level 1.

G. Applications:

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