

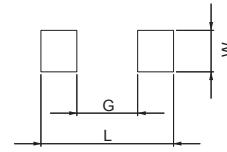
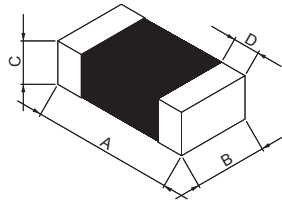
TI Series (LARGE CURRENT)

□ SMD Multi-Layer Ferrite Chip Beads

MECHANICAL DIMENSIONS



TI

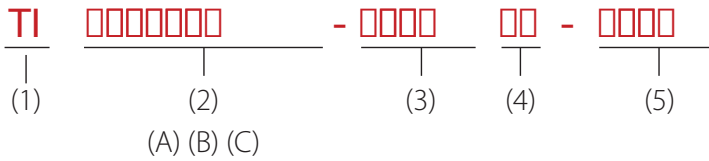


Recommended Patterns

unit: mm

TYPE	A	B	C	D	L	W	G
160808	1.6 _{±0.2} (0.063 _{±0.008})	0.8 _{±0.2} (0.031 _{±0.008})	0.8 _{±0.2} (0.031 _{±0.008})	0.3 _{±0.2} (0.012 _{±0.008})	2.80 (0.110)	1.00 (0.039)	0.6 (0.024)
201209	2.0 _{±0.2} (0.079 _{±0.008})	1.2 _{±0.2} (0.047 _{±0.008})	0.9 _{±0.2} (0.035 _{±0.008})	0.5 _{±0.3} (0.020 _{±0.012})	3.2 (0.126)	1.50 (0.059)	0.6 (0.024)
321611	3.2 _{±0.2} (0.126 _{±0.008})	1.6 _{±0.2} (0.063 _{±0.008})	1.1 _{±0.2} (0.043 _{±0.008})	0.5 _{±0.3} (0.020 _{±0.012})	4.4 (0.173)	1.80 (0.071)	1.20 (0.047)
322513	3.2 _{±0.2} (0.126 _{±0.008})	2.5 _{±0.2} (0.098 _{±0.008})	1.3 _{±0.2} (0.051 _{±0.008})	0.5 _{±0.3} (0.020 _{±0.012})	4.4 (0.173)	2.70 (0.106)	1.20 (0.047)
451616	4.5 _{±0.2} (0.177 _{±0.008})	1.6 _{±0.2} (0.063 _{±0.008})	1.6 _{±0.2} (0.063 _{±0.008})	0.5 _{±0.3} (0.020 _{±0.012})	5.80 (0.228)	1.8 (0.071)	2.00 (0.079)
453215	4.5 _{±0.2} (0.177 _{±0.008})	3.2 _{±0.2} (0.126 _{±0.008})	1.5 _{±0.2} (0.059 _{±0.008})	0.5 _{±0.3} (0.020 _{±0.012})	5.80 (0.228)	3.4 (0.134)	2.00 (0.079)

PART NUMBER KEY



- (1) Product Symbol: Multilayer Chip Beads
- (2) Dimensions: Length (A) x Width (B) x Thickness (C)
- (3) Material Code: Z, U, G, B, L
- (4) Impedance: abc=ab x 10⁵
- (5) Internal code

FEATURES

- ☑ High density packaging with a pitch of 2.54 mm_{±0.1} inch_{±0.004} max. is possible. This series requires less space and has 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 solderability.
- ☑ Applicable to both flow and reflow soldering.
- ☑ High impedance cover wide frequency ranges.
- ☑ TI series can be used in high current circuits due to its low DC resistance.
- ☑ Operating temperature range: -40_{±0} to +125_{±0}
- ☑ The products have five types of material: Material L, B, G, U, Z

MATERIALS

ITEM	UNIT	STANDARD VALUE					
		L	B	G	U	Z	
Material Code	☑						
Initial permeability	μiac	☑ 25	45	110	200	500	
Maximum Permeability	μM	☑ 125	125	250	450	900	
Saturation Flux Density at 10 Oe	Bs	Gauss	2000	2000	1700	1400	1500
Curie Temperature	Tc	☑	>200	>200	>130	>130	>100
Volume Resistivity	☑	☑-m	10 ⁵	10 ⁵	10 ⁵	10 ⁵	10 ⁵
Temperature Coefficient (Inductance)		10 ⁻⁴ /☑	10	10	12	13	5
Density	g/cm ³		4.8	4.8	4.8	4.8	4.8

SMD

Leaded

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ELECTRICAL SPECIFICATION

Part Number	Impedance At 100MHz (\pm 25%)	DC Resistance (\pm) Max.	Rated Current (A) Max.
TI160808U300-LRH	30	0.050	3.0
TI160808U600-LRH	60	0.050	3.0
TI160808U121-LRH	120	0.100	2.0
TI160808U301-LRH	300	0.150	1.5
TI160808U601-LRH	600	0.300	1.0
TI201209U110-LRH	11	0.010	6.0
TI201209U170-LRH	17	0.010	6.0
TI201209U220-LRH	22	0.010	6.0
TI201209U300-LRH	30	0.030	4.0
TI201209U600-LRH	60	0.050	3.0
TI201209U121-LRH	120	0.080	2.5
TI201209U221-LRH	220	0.100	2.0
TI201209U301-LRH	300	0.100	2.0
TI201209U601-LRH	600	0.300	1.0
TI201209B070-LRH	7	0.050	3.0
TI321611Z260-LRH	26	0.010	6.0
TI321611U310-LRH	31	0.010	6.0
TI321611U500-LRH	50	0.025	3.0
TI321611U121-LRH	120	0.080	2.5
TI321611U301-LRH	300	0.080	2.5
TI321611U601-LRH	600	0.10	2.0
TI321611G800-LRH	80	0.050	3.0
TI321611G101-LRH	100	0.050	3.0
TI321611B190-LRH	19	0.040	3.0
TI322513U300-LRH	30	0.050	3.0
TI322513U520-LRH	52	0.050	3.0
TI322513U650-LRH	65	0.030	3.0
TI451616U600-LRH	60	0.050	6.0
TI451616U750-LRH	75	0.050	3.0
TI451616U800-LRH	80	0.050	3.0
TI453215Z121-LRH	120	0.050	3.0
TI453215U700-LRH	70	0.030	6.0
TI453215U121-LRH	120	0.050	3.0

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