



TF160808 (0603) Series
SMD MULTILAYER CERAMIC CHIP INDUCTORS

Rev. A

A. Electrical Specifications:

P/N	L(mH)	Tol.	Test Freq. (MHz)	Q Min.	SRF Min. (MHz)	DCR Max. (Ω)	I rms. Max. (mA)
TF160808-1N0_	1.0	S, C, D	100	8	10000	0.05	1000
TF160808-1N2_	1.2	S, C, D	100	8	10000	0.05	1000
TF160808-1N5_	1.5	S, C, D	100	8	10000	0.10	1000
TF160808-1N8_	1.8	S, C, D	100	8	10000	0.10	1000
TF160808-2N2_	2.2	S, C, D	100	8	6000	0.10	1000
TF160808-2N7_	2.7	S, C, D	100	10	6000	0.13	1000
TF160808-3N3_	3.3	S, C, D	100	10	6000	0.13	1000
TF160808-3N9_	3.9	S, C, D	100	10	6000	0.15	1000
TF160808-4N7_	4.7	S, C, D	100	10	4000	0.20	1000
TF160808-5N6_	5.6	S, C, D	100	10	4000	0.23	600
TF160808-6N8_	6.8	J, G	100	10	4000	0.25	600
TF160808-8N2_	8.2	J, G	100	10	3500	0.28	600
TF160808-10N_	10.0	J, G	100	12	3200	0.30	600
TF160808-12N_	12.0	J, G	100	12	2600	0.35	600
TF160808-15N_	15.0	J, G	100	12	2300	0.40	600
TF160808-18N_	18.0	J, G	100	12	2000	0.45	600
TF160808-22N_	22.0	J, G	100	12	1600	0.50	600
TF160808-27N_	27.0	J, G	100	12	1400	0.55	600
TF160808-33N_	33.0	J, G	100	12	1200	0.60	600
TF160808-39N_	39.0	J, G	100	12	1100	0.65	500
TF160808-47N_	47.0	J, G	100	12	900	0.70	500
TF160808-56N_	56.0	J, G	100	12	900	0.75	500
TF160808-68N_	68.0	J, G	100	12	700	0.85	400
TF160808-82N_	82.0	J, G	100	12	600	0.95	300
TF160808-R10_	100.0	J, G	100	12	600	1.00	300
TF160808-R12_	120.0	J, G	50	8	500	1.20	300
TF160808-R15_	150.0	J, G	50	8	500	1.20	300
TF160808-R18_	180.0	J, G	50	8	400	1.30	300
TF160808-R22_	220.0	J, G	50	8	400	1.50	300
TF160808-R27_	270.0	J, G	50	8	400	1.90	150
TF160808-R33_	330.0	J, G	50	8	350	2.10	150
TF160808-R39_	390.0	J, G	50	8	350	2.10	150

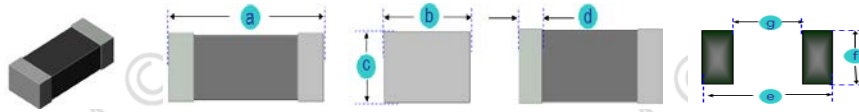
B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
TF160808	1.6 (0.063)	0.8 (0.031)	0.8 (0.031)	0.3 (0.012)	2.80(0.110)	1.00(0.039)	0.60(0.024)
Tol.	± 0.2(0.008)	± 0.2(0.008)	± 0.2(0.008)	± 0.2(0.008)	Typ.	Typ.	Typ.

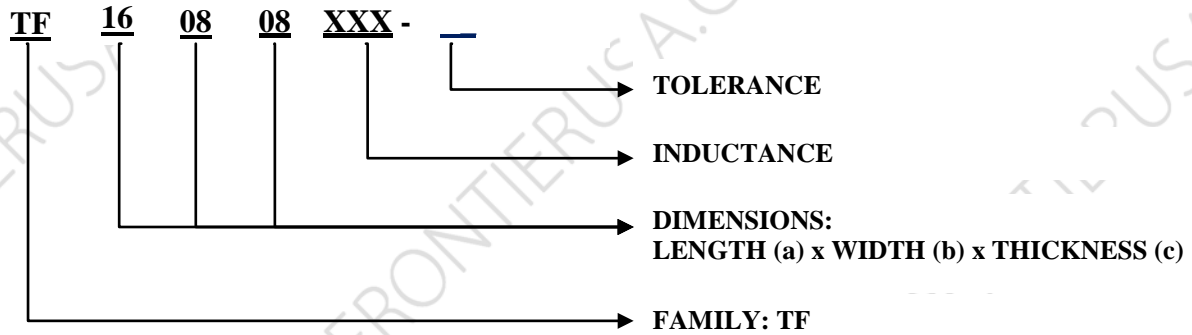


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C. Part Number Key:



D. General Information:

1. TF160808 -xxx_, "TF160808" = Type, "xxx" = Inductance, "-" = Tolerance.
2. Tolerance "-": M: $\pm 20\%$, K: $\pm 10\%$, J: $\pm 5\%$, H: $\pm 3\%$, G: $\pm 2\%$, S: $\pm 0.3nH$, C: $\pm 0.2nH$, D: $\pm 0.1nH$.
3. The product's materials: Ceramic.
4. Excellent solder ability and high heat resistance for either flow or reflow soldering.
5. Monolithic structures for highly reliable surface mount applications.
6. Superior Q characteristics guaranteed over the wide frequency and allow high frequency application.
7. The completely monolithic structure gives high reliability and allows high SRF.
8. Both flow and IR re-flow application are possible.
9. Operating temperature: $-40^{\circ}C$ to $+125^{\circ}C$
10. Maximum Temperature Rise: $15^{\circ}C$ (when measured at $25^{\circ}C$ ambient).
11. Unspecified values available on request.
12. Inductance and Current range: From 1.0nH (1000mA) to 390.0nH (150mA)
13. SRF: From 350 MHz to 10,000 MHz
14. MSL: Level 1.

E. Applications:

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