



Frontier Electronics Corp.

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Multi-layers Chip Inductors---TF160808 (0603) series--Ceramic

www.datasheet4u.com

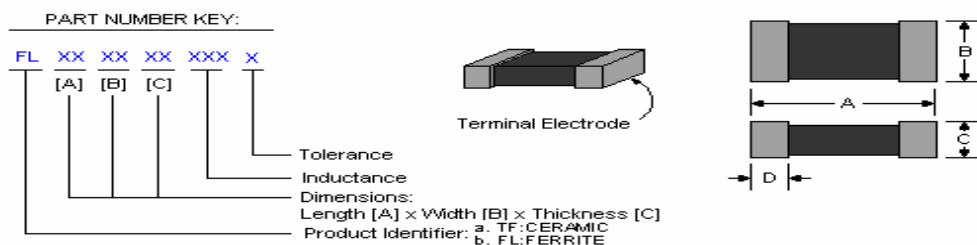
A. Electrical specifications:

Part No.	L (nH) @ 100MHz	Tolerance	Q min. @100MHz	SRF Min. (MHz)	DCR Max. (Max) Ω	I Max. (mA)
TF160808-1N0S	1.0	S	8	>17000	0.10	300
TF160808-1N2S	1.2	S	8	>17000	0.10	300
TF160808-1N5S	1.5	S	8	>17000	0.10	300
TF160808-1N8S	1.8	S	8	13000	0.15	300
TF160808-2N2S	2.2	S	8	12000	0.15	300
TF160808-2N7S	2.7	S	8	8500	0.20	300
TF160808-3N3S	3.3	S	8	6500	0.25	300
TF160808-3N9S	3.9	S	8	6250	0.25	300
TF160808-4N7S	4.7	S	8	5400	0.30	300
TF160808-5N6S	5.6	S	8	4500	0.30	300
TF160808-6N8_	6.8	J, K	8	4500	0.35	300
TF160808-8N2_	8.2	J, K	8	3800	0.40	300
TF160808-10N_	10	J, K	8	3700	0.45	300
TF160808-12N_	12	J, K	8	3200	0.50	300
TF160808-15N_	15	J, K	8	2900	0.55	300
TF160808-18N_	18	J, K	10	2100	0.60	300
TF160808-22N_	22	J, K	10	2100	0.65	300
TF160808-27N_	27	J, K	10	2000	0.70	300
TF160808-33N_	33	J, K	10	1600	0.80	300
TF160808-39N_	39	J, K	10	1500	0.85	300
TF160808-47N_	47	J, K	12	1200	1.00	300
TF160808-56N_	56	J, K	12	1100	1.10	300
TF160808-68N_	68	J, K	12	1000	1.20	300
TF160808-82N_	82	J, K	12	850	1.80	300
TF160808-R10_	100	J, K	12	750	2.00	300
TF160808-R12_	120	J, K	8	700	2.30	300

B. Dimensions: [Unit: mm /(inch)]

P/N & Package Size	A	B	C	D
TF160808 (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)	0.3 ± 0.2 (0.012 ± 0.008)

C. Part Number Key & Mechanical drawing:



Part Number Key & Mechanical drawing

D. Features:

1. Tolerance: M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$, J: $\pm 5\%$, D: $\pm 0.5\text{nH}$, S: $\pm 0.3\text{nH}$.
2. The product's material: **Ceramic**.
3. No cross coupling between inductors due to magnetic shield. Ideal for high-density installation.
4. Superior Q characteristics guaranteed over the wide frequency and allow high frequency application.
5. The completely monolithic structure gives high reliability and allows high SRF.
6. Operating temperature range: -25°C to $+85^{\circ}\text{C}$. both flow and IR re-flow application is possible.
7. Inductance Range:
*TF160808 (0603) Series: Multi-layer Ceramic Chip Inductor, from 1.00 nH (300 mA) to 120 nH (300 mA)
8. **RoHS** compliant.