



# Frontier Electronics Corp.

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## Multi-layers Chip Inductors--TF100505 (0402) Series—Ceramic

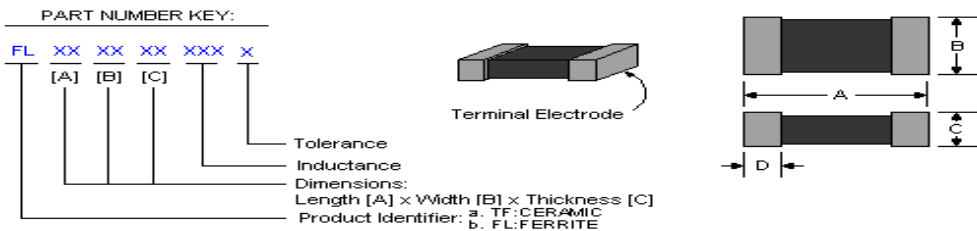
### A. Electrical specifications:

Part No.	L @100MHz (nH)	Tolerance	Q Typical		SRF min. (MHz)	DCR (Max) Ω	I rms. (mA)
			@100MHz	@800MHz			
TF100505-1N0S	1.0	S	10	28	13500	0.10	300
TF100505-1N2S	1.2	S	9	28	12000	0.10	300
TF100505-1N5S	1.5	S	10	30	10500	0.10	300
TF100505-1N8S	1.8	S	10	28	9400	0.10	300
TF100505-2N2S	2.2	S	10	30	8700	0.20	300
TF100505-2N7S	2.7	S	10	30	7700	0.20	300
TF100505-3N3	3.3	S, K	10	30	6800	0.30	300
TF100505-3N9	3.9	S, K	11	31	6300	0.30	300
TF100505-4N7	4.7	S, K	10	30	5700	0.40	300
TF100505-5N6	5.6	S, K	11	31	5100	0.40	300
TF100505-6N8	6.8	J, K	10	31	4500	0.50	300
TF100505-8N2	8.2	J, K	12	34	4100	0.50	300
TF100505-10N	10.0	J, K	12	32	3750	0.60	300
TF100505-12N	12.0	J, K	12	31	2950	0.60	300
TF100505-15N	15.0	J, K	11	30	2600	0.70	300
TF100505-18N	18.0	J, K	11	29	2350	0.80	300
TF100505-22N	22.0	J, K	11	28	1950	0.90	300
TF100505-27N	27.0	J, K	12	27	1750	1.00	300
TF100505-33N	33.0	J, K	10	25	1600	1.50	200
TF100505-39N	39.0	J, K	10	25	1400	1.80	150
TF100505-47N	47.0	J, K	9	23	1200	2.00	150
TF100505-56N	56.0	J, K	8	20	1100	2.10	150
TF100505-68N	68.0	J, K	8	20	1000	2.25	100
TF100505-82N	82.0	J, K	8	18	900	2.55	100
TF100505-R10	100.0	J, K	8	18	825	2.60	100
TF100505-R12	120.0	J, K	8	16	725	2.65	100

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

P/N & Package Size	A	B	C	D (min.)
TF100505 (0402)	1.0 ± 0.1 (0.04 ± 0.004)	0.5 ± 0.1 (0.020 ± 0.004)	0.5 ± 0.1 (0.020 ± 0.004)	0.100 (0.004)

### C. Part Number Key & Mechanical drawing:



### D. Features:

1. Tolerance: K: ±10%, J: ±5%, D: ±0.5nH, S: ±0.3nH.
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°C.
7. Both flow and IR re-flow application are possible.
8. Inductance Range:  
\*TF1005 (0402) Series: Multi-layer Ceramic Chip Inductor, from 1.0 nH (300mA) to 47.0 nH (200mA)
9. Above part numbers on the table is for "LEADED" parts; for **RoHS** parts, please add "**-LFR**" at the end of our Part number.