



# Frontier Electronics Corp.

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## Multi-layers Chip Inductors--FL160808 (0603) series--Standard (Ferrite)

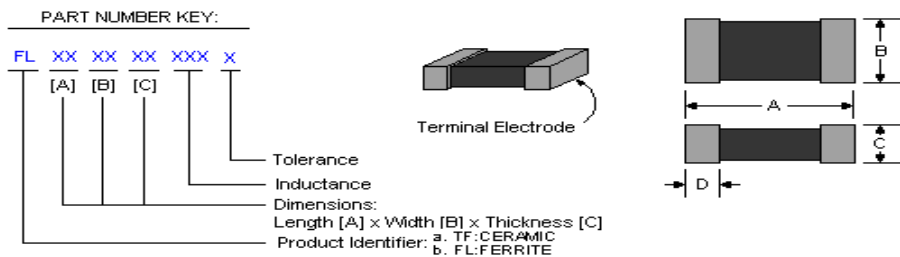
### A. Electrical specifications:

Part No.	L (uH)	Q Min.	Test Freq. (MHz)	SRF min. (MHz)	DCR Max (Ω)	I rms. (mA)
FL160808-47NM	0.047	10	50	260	0.30	50
FL160808-68NM	0.068	10	50	250	0.30	50
FL160808-R10K	0.10	15	25	240	0.50	50
FL160808-R12K	0.12	15	25	205	0.50	50
FL160808-R15K	0.15	15	25	180	0.60	50
FL160808-R18K	0.18	15	25	165	0.60	50
FL160808-R22K	0.22	15	25	150	0.80	50
FL160808-R27K	0.27	15	25	136	0.80	50
FL160808-R33K	0.33	15	25	125	0.85	35
FL160808-R39K	0.39	15	25	110	1.00	35
FL160808-R47K	0.47	15	25	105	1.35	35
FL160808-R56K	0.56	15	25	95	1.55	35
FL160808-R68K	0.68	15	25	90	1.70	35
FL160808-R82K	0.82	15	25	85	2.10	35
FL160808-1R0K	1.00	35	10	75	0.60	25
FL160808-1R2K	1.20	35	10	65	0.80	25
FL160808-1R5K	1.50	35	10	60	0.80	25
FL160808-1R8K	1.80	35	10	55	0.95	25
FL160808-2R2K	2.20	35	10	50	1.15	15
FL160808-2R7K	2.70	35	10	45	1.35	15
FL160808-3R3K	3.30	35	10	40	1.55	15

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

P/N & Package Size	A	B	C	D
FL160808 (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:



### D. Features:

1. Tolerance: M: ±20%, L: ± 15%, K: ±10%.
2. The product's material: **Ferrite**.
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: -40°C to +125°C.
7. Both flow and IR re-flow application are possible.
8. Inductance Range:  
 \*FL1608 (0603) Series: Multi-layer Ferrite Chip Inductor, from 0.047 uH (50mA) to 3.30 uH (15mA)
9. Above part numbers on the table is for "LEADED" parts; for **RoHS** parts, please add "-LFR" at the end of our Part number.