



# Frontier Electronics Corp.

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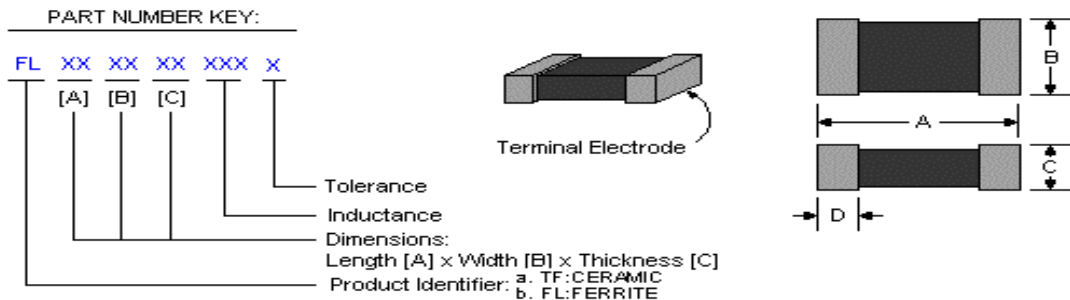
Web: frontierusa.com

## Multi-Layer Chip Inductors

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

P/N & Package Size	A	B	C	D
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)	0.1 Min. (0.004 Min.)
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)
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)
TF201209 (0805)	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)
FL201209 (0805)	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)
TF201212 (0805)	2.0 ± 0.2 (0.079 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)
FL201212 (0805)	2.0 ± 0.2 (0.079 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	1.2 ± 0.2 (0.047 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)
FL321611 (1206)	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)
FL321616 (1206)	3.2 ± 0.2 (0.126 ± 0.008)	1.6 ± .02 (0.063 ± 0.008)	1.6 ± 0.2 (0.063 ± 0.008)	0.5 ± 0.3 (0.020 ± 0.012)

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



### Part Number Key & Mechanical drawing

### C. Features:

1. Tolerance: M: ±20%, L: ± 15%, K: ±10%, J: ±5%, D: ±0.5nH, S: ±0.3nH.
2. The products have two types of material: ferrite and 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: -40°C to +125°C.
7. Both flow and IR reflow application are possible.
8. Inductance Range:
  - \*TF1005 (0402) Series: Multilayer Ceramic Chip Inductor, from 1.0nH(300mA) to 47.0 nH (200mA)
  - \*TF1608 (0603) Series: Multilayer Ceramic Chip Inductor, from 1.20nH(300mA) to 100.0 nH (300mA)
  - \*FL1608 (0603) Series: Multilayer Ferrite Chip Inductor, from 0.047uH(50mA) to 3.30 uH (15 mA)
  - \*TF2012 (0805) Series: Multilayer Ceramic Chip Inductor, from 1.5nH(300mA) to 470.0 nH (100mA)
  - \*FL2012 (0805) Series: Multilayer Ferrite Chip Inductor, from 0.047uH(300mA) to 10.0 uH (10 mA)
  - \*FL3216 (1206) Series: Multilayer Ferrite Chip Inductor, from 0.047uH(300mA) to 10.0 uH (10 mA)

**Note:** For “RoHS” parts, we add “-LFR” after the part number.