



Frontier Electronics Corp.

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Multi-layers Chip Inductors--FL2012 (0805) series—Standard Ferrite

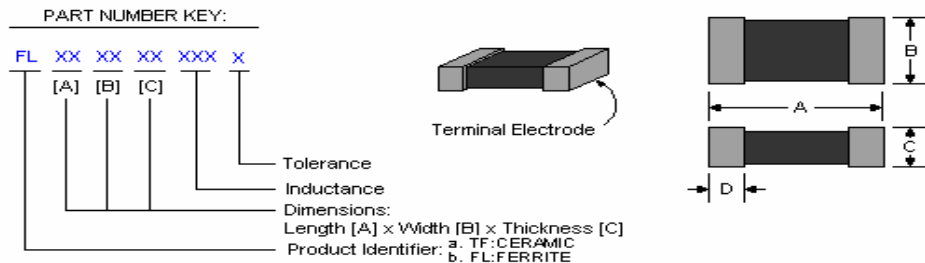
A. Electrical specifications:

Part No.	L (uH)	Q Min.	Test Freq. (MHz)	SRF min. (MHz)	DCR Max (Ω)	I rms. (mA)
FL201209-47NM	0.047	15	50	320	0.20	300
FL201209-68NM	0.068	15	50	280	0.20	300
FL201209-R10K	0.10	20	25	235	0.30	250
FL201209-R12K	0.12	20	25	220	0.30	250
FL201209-R15K	0.15	20	25	200	0.40	250
FL201209-R18K	0.18	20	25	185	0.40	250
FL201209-R22K	0.22	20	25	170	0.50	250
FL201209-R27K	0.27	20	25	150	0.50	250
FL201209-R33K	0.33	20	25	145	0.55	250
FL201209-R39K	0.39	25	25	135	0.65	200
FL201209-R47K	0.47	25	25	125	0.65	200
FL201209-R56K	0.56	25	25	115	0.75	150
FL201209-R68K	0.68	25	25	105	0.80	150
FL201209-R82K	0.82	25	25	100	1.00	150
FL201209-1R0K	1.0	45	10	75	0.40	50
FL201209-1R2K	1.2	45	10	65	0.50	50
FL201209-1R5K	1.5	45	10	60	0.50	50
FL201209-1R8K	1.8	45	10	55	0.60	50
FL201209-2R2K	2.2	45	10	50	0.65	30
FL201212-2R7K	2.7	45	10	45	0.75	30
FL201212-3R3K	3.3	45	10	41	0.80	30
FL201212-3R9K	3.9	45	10	38	0.90	30
FL201212-4R7K	4.7	45	10	35	1.00	30
FL201212-5R6K	5.6	50	4	32	0.90	15
FL201212-6R8K	6.8	50	4	29	1.00	15
FL201212-8R2K	8.2	50	4	26	1.10	15
FL201212-100K	10	50	2	24	1.15	15

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

P/N & Package Size	A	B	C	D
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)
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)

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: -25°C to +85°C.
7. Both flow and IR re-flow application are possible.
8. Inductance Range:
*FL2012 (0805) Series: Multi-layer Ferrite Chip Inductor, from 0.047 uH (300mA) to 10.0 uH (15mA)
9. **RoHS** compliant.