



# Frontier Electronics Corp.

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## Multi-layers Chip Inductors--FL3216 (1206) series—Standard Ferrite

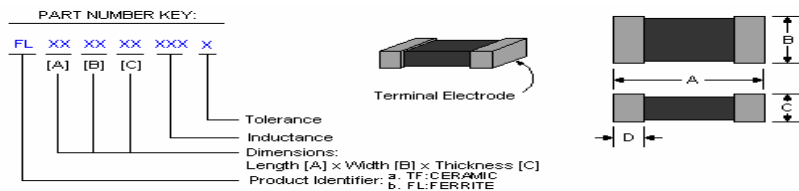
### A. Electrical specifications:

Part Number	L (uH)	Q Min.	Test Freq. (MHz)	SRF min. (MHz)	DCR Max. (Ω)	I rms. (mA)
FL321611-47NM	0.047	20	50	320	0.15	300
FL321611-68NM	0.068	20	50	280	0.25	300
FL321611-R10K	0.10	20	25	235	0.25	250
FL321611-R12K	0.12	20	25	220	0.30	250
FL321611-R15K	0.15	20	25	200	0.30	250
FL321611-R18K	0.18	20	25	185	0.40	250
FL321611-R22K	0.22	20	25	170	0.40	250
FL321611-R27K	0.27	20	25	150	0.50	250
FL321611-R33K	0.33	20	25	145	0.60	250
FL321611-R39K	0.39	25	25	135	0.50	200
FL321611-R47K	0.47	25	25	125	0.60	200
FL321611-R56K	0.56	25	25	115	0.70	150
FL321611-R68K	0.68	25	25	105	0.80	150
FL321611-R82K	0.82	25	25	100	0.90	150
FL321611-1R0K	1.0	45	10	75	0.40	100
FL321611-1R2K	1.2	45	10	65	0.50	100
FL321611-1R5K	1.5	45	10	60	0.50	50
FL321611-1R8K	1.8	45	10	55	0.50	50
FL321611-2R2K	2.2	45	10	50	0.60	50
FL321611-2R7K	2.7	45	10	45	0.60	50
FL321611-3R3K	3.3	45	10	41	0.70	50
FL321611-3R9K	3.9	45	10	38	0.80	50
FL321611-4R7K	4.7	45	10	35	0.90	50
FL321611-5R6K	5.6	50	4	32	0.70	25
FL321611-6R8K	6.8	50	4	29	0.80	25
FL321611-8R2K	8.2	50	4	26	0.90	25
FL321611-100K	10	50	2	24	1.00	25
FL321611-120K	12	50	2	22	1.05	15
FL321616-150K	15	35	1	19	0.70	5
FL321616-180K	18	35	1	18	0.70	5
FL321616-220K	22	35	1	16	0.90	5
FL321616-270K	27	35	1	14	0.90	5
FL321616-330K	33	35	1	13	1.05	5

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

P/N & Package Size	A	B	C	D
FL321611 (1206)	3.2 ± 0.2 (0.126 ± .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)

### 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, both flow and IR re-flow application are possible.
7. Inductance Range:  
\*FL3216 (1206) Series: Multi-layer Ferrite Chip Inductor, from 0.047 uH (300mA) to 12.0 uH (15mA)
8. **RoHS** compliant.