



# FL2012 (0805) Series SMD MULTILAYER FERRITE CHIP INDUCTORS

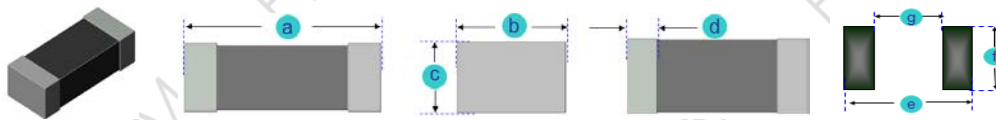
Rev. A

## A. Electrical Specifications:

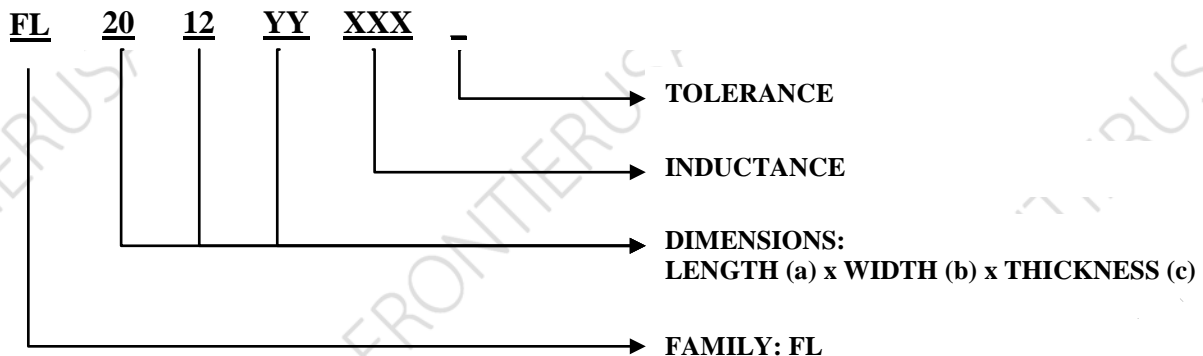
P/N	L (uH)	Tol.	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	I rms. Max. (mA)
FL201209-47N	0.047	M (±20%)	15	50	320	0.20	300
FL201209-68N	0.068	M (±20%)	15	50	280	0.20	300
FL201209-R10	0.10	K (±10%)	20	25	235	0.30	250
FL201209-R12	0.12	K (±10%)	20	25	220	0.30	250
FL201209-R15	0.15	K (±10%)	20	25	200	0.40	250
FL201209-R18	0.18	K (±10%)	20	25	185	0.40	250
FL201209-R22	0.22	K (±10%)	20	25	170	0.50	250
FL201209-R27	0.27	K (±10%)	20	25	150	0.50	250
FL201209-R33	0.33	K (±10%)	20	25	145	0.55	250
FL201209-R39	0.39	K (±10%)	25	25	135	0.65	200
FL201209-R47	0.47	K (±10%)	25	25	125	0.65	200
FL201209-R56	0.56	K (±10%)	25	25	115	0.75	150
FL201209-R68	0.68	K (±10%)	25	25	105	0.80	150
FL201209-R82	0.82	K (±10%)	25	25	100	1.00	150
FL201209-1R0	1.0	K (±10%)	45	10	75	0.40	50
FL201209-1R2	1.2	K (±10%)	45	10	65	0.50	50
FL201209-1R5	1.5	K (±10%)	45	10	60	0.50	50
FL201209-1R8	1.8	K (±10%)	45	10	55	0.60	50
FL201209-2R2	2.2	K (±10%)	45	10	50	0.65	30
FL201212-2R7	2.7	K (±10%)	45	10	45	0.75	30
FL201212-3R3	3.3	K (±10%)	45	10	41	0.80	30
FL201212-3R9	3.9	K (±10%)	45	10	38	0.90	30
FL201212-4R7	4.7	K (±10%)	45	10	35	1.00	30
FL201212-5R6	5.6	K (±10%)	50	4	32	0.90	15
FL201212-6R8	6.8	K (±10%)	50	4	29	1.00	15
FL201212-8R2	8.2	K (±10%)	50	4	26	1.10	15
FL201212-100	10	K (±10%)	50	2	24	1.15	15

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
FL201209	2.0(0.079)	1.2(0.047)	0.9(0.035)	0.5(0.020)	3.20(0.126)	1.50(0.059)	0.60(0.024)
Tol.	±0.2(0.008)	±0.2(0.008)	±0.2(0.008)	±0.3(0.012)	Typ.	Typ.	Typ.
FL201212	2.0(0.079)	1.2(0.047)	1.2(0.047)	0.5(0.020)	3.20(0.126)	1.50(0.059)	0.60(0.024)
Tol.	±0.2(0.008)	±0.2(0.008)	±0.2(0.008)	±0.3(0.012)	Typ.	Typ.	Typ.



## C. Part Number Key:





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### D. General Information

1. P/N: FL2012yy-xxx\_, "FL2012" = Size Type, "yy" = Thickness, "xxx" = Inductance, "\_" = Tolerance.
2. Tolerance "\_": M:  $\pm 20\%$ , K:  $\pm 10\%$
3. The product's material: Ferrite.
4. Excellent solder ability and high heat resistance for either flow or reflow soldering.
5. Monolithic structures for highly reliable surface mount applications.
6. No cross coupling between inductors due to magnetic shield. Ideal for high-density installation.
7. Superior Q characteristics guaranteed over the wide frequency and allow high frequency application.
8. The completely monolithic structure gives high reliability and allows high SRF.
9. Both flow and IR re-flow application are possible.
10. Operating temperature:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
11.  $15^{\circ}\text{C}$  Temperature Rise at  $25^{\circ}\text{C}$  ambient
12. Inductance Range: From 0.047uH (300mA) to 10.0uH (15mA)
13. SRF: From 24 MHz to 320 MHz
14. Unspecified values available on request.
15. MSL: Level 1.

### E. Applications

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)