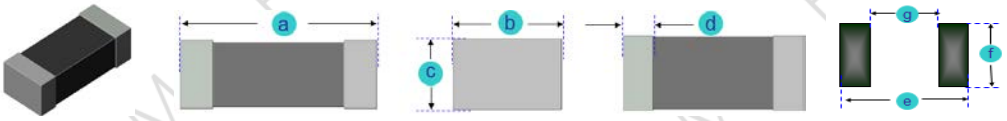
FL2012 (0805) Series
SMD MULTILAYER FERRITE CHIP INDUCTORS
Rev. A

A. Electrical Specifications:

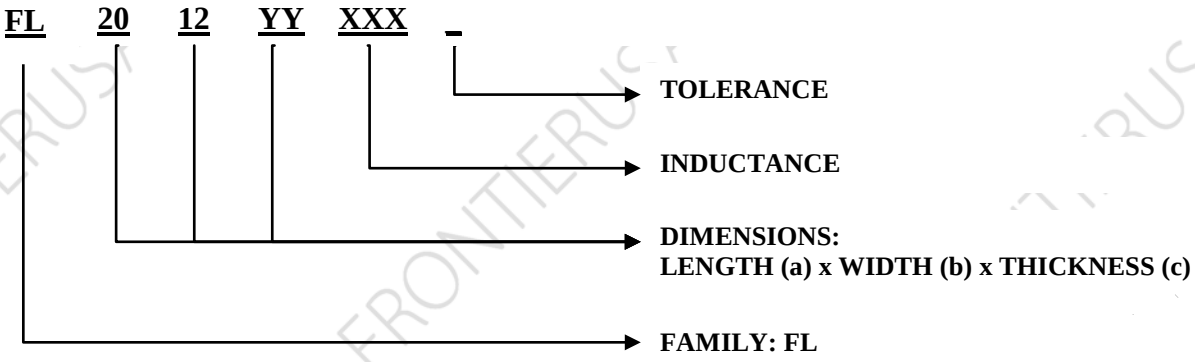
P/N	L (uH)	Tol.	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	I rms. Max. (mA)
FL201209-47N_	0.047	M (±20%)	15	50	320	0.20	300
FL201209-68N_	0.068	M (±20%)	15	50	280	0.20	300
FL201209-R10_	0.10	K (±10%)	20	25	235	0.30	250
FL201209-R12_	0.12	K (±10%)	20	25	220	0.30	250
FL201209-R15_	0.15	K (±10%)	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:



667 E. Cochran St., Simi Valley, CA 93065
Phone: 1-805-522-9998, Fax: 1-805-522-9989

D. General Information

1. P/N: FL2012yy-xxx_, “FL2012” =Size Type, “yy” = Thickness, “xxx” = Inductance, “_” = Tolerance.
2. Tolerance “_” : M: ± 20%, K: ±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°C to +125ºC
11. 15ºC Temperature Rise at 25ºC 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.)

FRONTIERUSA.COM © FRONTIERUSA.COM © FRONTIERUSA.COM © FRONTIERUSA.COM © FRONTIERUSA.COM © FRONTIERUSA.COM ©