CFL201212SF TYPE

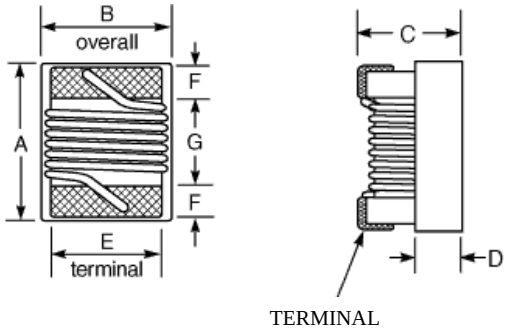
●FEATURE

1. Wire wound SMD inductors, signal line used
2. Highly accurate dimensions and reliable

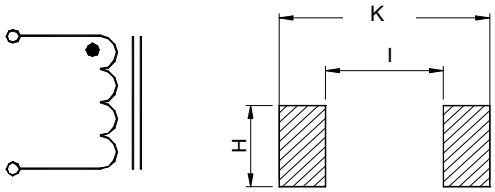
●Applications

1. Hard Disk drives, and other electronic equipment

●Shape and Dimension



●Schematics and Land Patterns(mm)



●Specification

Dimension in m/m

TYPE	A	B	C	D	E	F	G	K	H	I
CFL201212SF(0805)	2.40Max	1.65Max	1.30Max	0.65	1.00	0.44	1.00	2.80	1.78	0.76

Note1. Measurement frequency of Inductance value : at electrical characteristics

Note2. Measurement ambient temperature of L, DCR and IDC : at 25℃

Note3. IDC : This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at Δt=20℃,which is lower.(Ta=20℃)

Note4. Inductance tolerance: J: ±5% ;K: ±10% ; M: ±20%

Note5. Ordering Code (P/N)

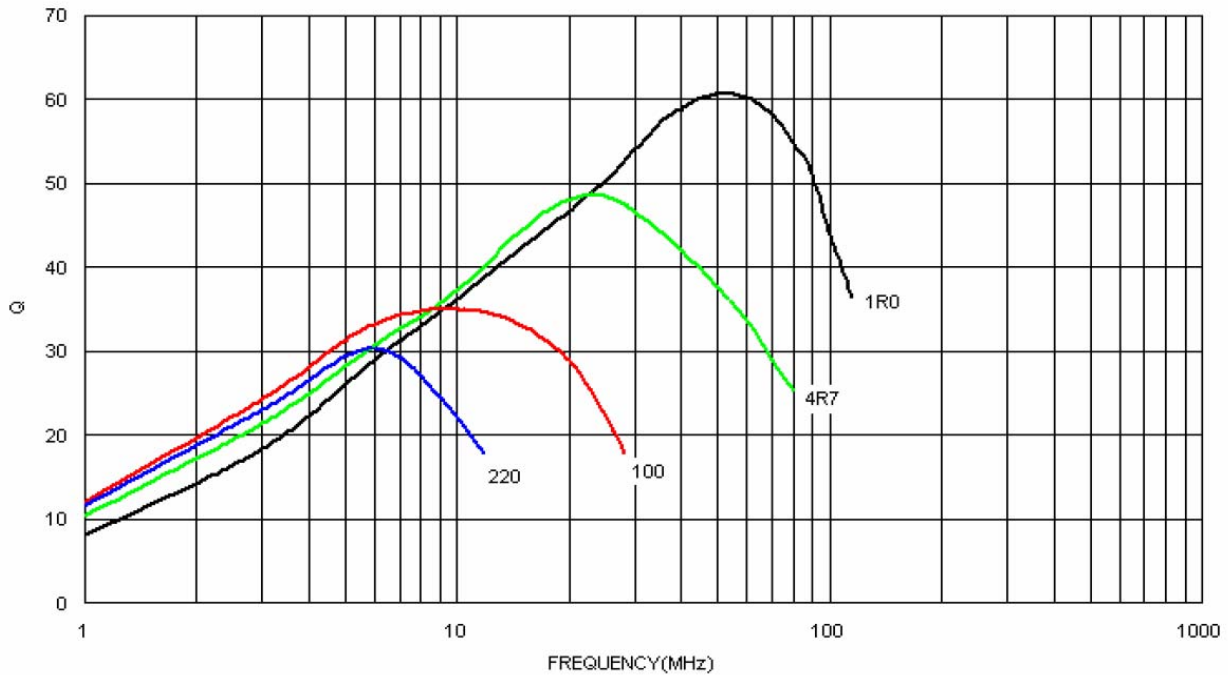
1.TYPE NAME : CFL201212SF

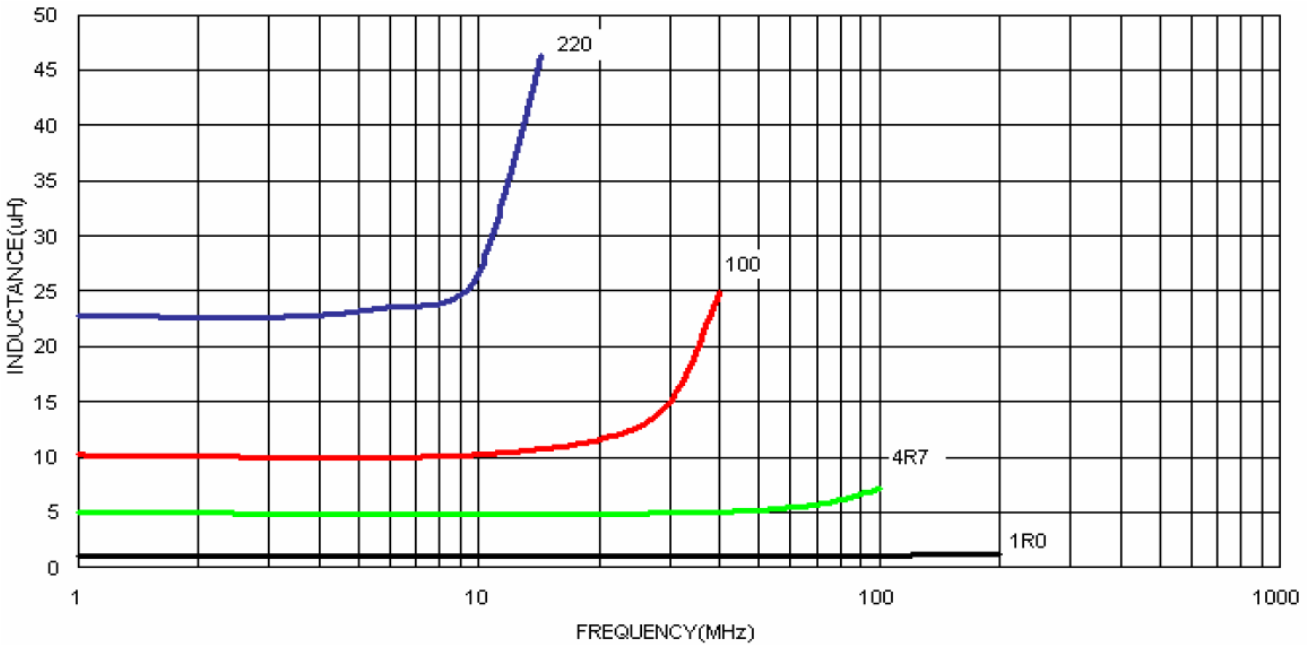
2.INDUCTANCE VALUE : 100(10uH)

3.INDUCTANCE TOLERANCE : □(see Note4)

P/N	L (μH)	TEST FREQ. (MHz)	Q Min	SRF (MHz) Min	RDC (Ω)Max	IDC (mA)Max
CFL201212SF-R12□	0.12	25	25	1000	0.18	1500
CFL201212SF-R15□	0.15	25	25	1000	0.18	1400
CFL201212SF-R18□	0.18	25	30	1000	0.20	1400
CFL201212SF-R22□	0.22	25	30	830	0.25	1350
CFL201212SF-R27□	0.27	25	30	800	0.38	1300
CFL201212SF-R33□	0.33	25	30	750	0.35	1200
CFL201212SF-R39□	0.39	25	30	700	0.35	1160
CFL201212SF-R47□	0.47	25	30	690	0.40	1100
CFL201212SF-R56□	0.56	25	30	640	0.40	1040
CFL201212SF-R62□	0.62	25	30	640	0.45	980
CFL201212SF-R68□	0.68	25	30	510	0.50	900
CFL201212SF-R82□	0.82	25	30	500	0.50	900
CFL201212SF-R91□	0.91	25	30	500	0.55	900
CFL201212SF-1R0□	1.0	7.9	20	470	0.50	840
CFL201212SF-1R2□	1.2	7.9	20	400	0.75	800
CFL201212SF-1R5□	1.5	7.9	25	400	1.00	720
CFL201212SF-1R8□	1.8	7.9	25	230	1.00	660
CFL201212SF-2R2□	2.2	7.9	25	200	1.05	600
CFL201212SF-2R7□	2.7	7.9	25	130	1.18	500
CFL201212SF-3R3□	3.3	7.9	25	160	1.26	480
CFL201212SF-3R9□	3.9	7.9	25	130	1.75	440
CFL201212SF-4R7□	4.7	7.9	25	120	1.87	390
CFL201212SF-5R6□	5.6	7.9	25	90	2.00	340
CFL201212SF-6R8□	6.8	7.9	25	55	2.15	300
CFL201212SF-8R2□	8.2	7.9	25	40	2.37	280
CFL201212SF-100□	10	2.5	25	40	2.55	260
CFL201212SF-120□	12	2.5	16	37	2.80	220
CFL201212SF-150□	15	2.5	16	30	3.80	200
CFL201212SF-180□	18	2.5	16	23	4.48	180
CFL201212SF-220□	22	2.5	16	20	6.30	160
CFL201212SF-270□	27	2.5	16	19	6.85	140
CFL201212SF-330□	33	2.5	16	18	7.60	120

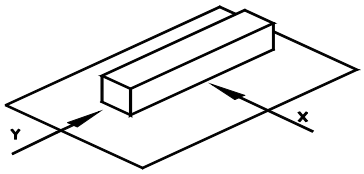
●Electrical Curve





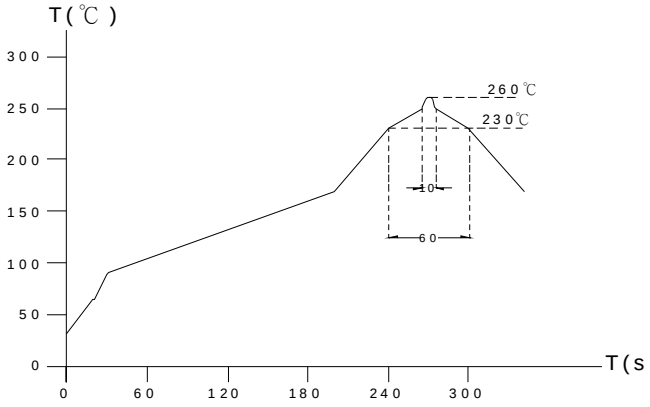
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105℃(Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.
   Terminal should not peel off. (refer to figure at right) 0.5kg



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/℃(-25~+80℃).
7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2℃and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within ±5%, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within ±5%, after being dropped once with 981m/s2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260℃, 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10℃ ~ 35℃ (Generally: 21℃ ~ 31℃) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35℃ ~ 85℃ , Humidity Range: 50% ~ 95% RH
12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition