CFL1008C TYPE

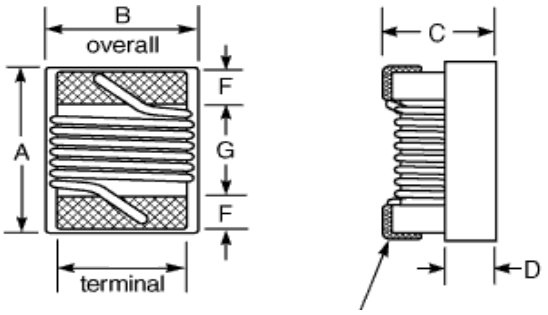
●FEATURE

1. High frequency
2. Highest possible SRF as well as excellent Q values

●Applications

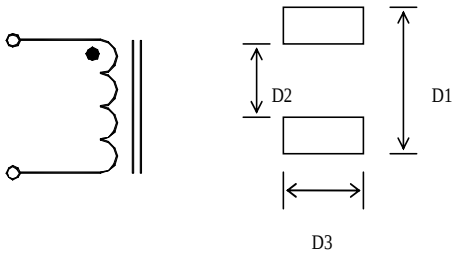
1. Pager, Cordless phone and High freq. communication products

●Shape and Dimension



ELECTRODE TERMINAL

●Schematics and Land Patterns(mm)



●Specification

Dimension in m/m

TYPE	A(Max)	B(Max)	C(Max)	D	F	G	D1	D2	D3
CFL1008C	2.92	2.79	2.03	1.30	0.55	1.60	3.30	1.27	2.90

Note1. Measurement equipment of electrical : HP E4991A

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

Note3. Inductance tolerance: B: ±0.2nH ; S: ±0.3nH ; G: ±2% ; J: ±5% ; K: ±5%

Note4. Ordering code : Part number + Inductance tolerance + custormer code(if necessary)

Note5. Customer code:T1: CFL1008C can use no wire cross over when over 470nH

Note5. This specification might be changed without notice due to under developing and improving.

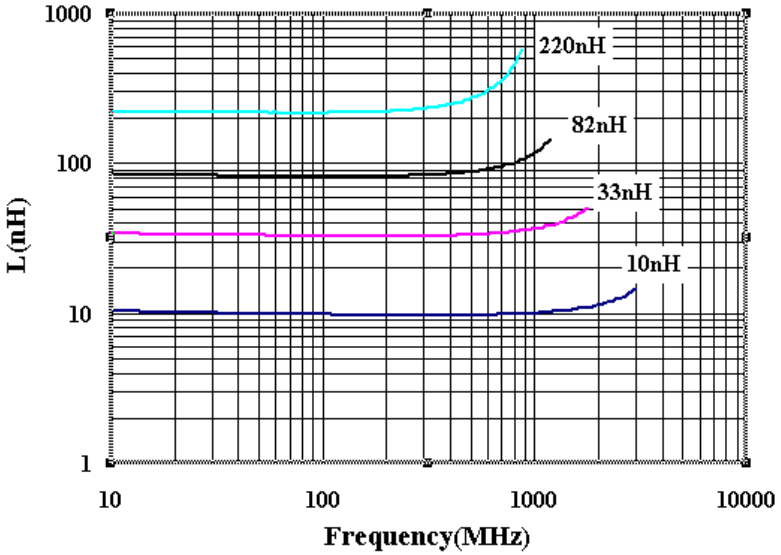
Thank you for your understanding.

Part Number	L(nH)/@MHz	Inductance tolerance	Q min /@MHz	SRF(MHz) min.	DCR (ΩMax)	IDC(mA) (Max)
CFL1008C-10N□	10 / 50	G，J，K	50 / 500	4100	0.08	1000
CFL1008C-12N□	12 / 50	G，J，K	50 / 500	3300	0.09	1000
CFL1008C-15N□	15 / 50	G，J，K	50 / 500	2500	0.16	1000
CFL1008C-18N□	18 / 50	G，J，K	50 / 350	2500	0.11	1000
CFL1008C-22N□	22 / 50	G，J，K	55 / 350	2400	0.12	1000
CFL1008C-27N□	27 / 50	G，J，K	50 / 350	1600	0.13	1000
CFL1008C-33N□	33 / 50	G，J，K	60 / 350	1600	0.14	1000
CFL1008C-39N□	39 / 50	G，J，K	60 / 350	1500	0.15	1000
CFL1008C-47N□	47 / 50	G，J，K	65 / 350	1500	0.16	1000
CFL1008C-56N□	56 / 50	G，J，K	65 / 350	1300	0.18	1000
CFL1008C-68N□	68 / 50	G，J，K	65 / 350	1300	0.20	1000
CFL1008C-82N□	82 / 50	G，J，K	60 / 350	1000	0.22	1000
CFL1008C-R10□	100 / 25	G，J，K	60 / 350	1000	0.56	650
CFL1008C-R12□	120 / 25	G，J，K	60 / 350	950	0.63	650
CFL1008C-R15□	150 / 25	G，J，K	45 / 100	850	0.70	580
CFL1008C-R18□	180 / 25	G，J，K	45 / 100	750	0.77	620
CFL1008C-R22□	220 / 25	G，J，K	45 / 100	700	0.84	500
CFL1008C-R27□	270 / 25	G，J，K	45 / 100	600	0.91	500
CFL1008C-R33□	330 / 25	G，J，K	45 / 100	570	1.05	450
CFL1008C-R39□	390 / 25	G，J，K	45 / 100	500	1.12	470
CFL1008C-R47□	470 / 25	G，J，K	45 / 100	450	1.19	470
CFL1008C-R56□	560 / 25	G，J，K	45 / 100	415	1.33	400
CFL1008C-R62□	620 / 25	G，J，K	45 / 100	375	1.40	300
CFL1008C-R68□	680 / 25	G，J，K	45 / 100	375	1.47	400
CFL1008C-R75□	750 / 25	G，J，K	45 / 100	360	1.54	360
CFL1008C-R82□	820 / 25	G，J，K	45 / 100	350	1.61	400
CFL1008C-R91□	910 / 25	G，J，K	35 / 50	320	1.68	380
CFL1008C-1R0□	1000 / 25	G，J，K	35 / 50	290	1.75	370
CFL1008C-1R2□	1200 / 7.9	G，J，K	30 / 50	250	2.00	310
CFL1008C-1R5□	1500 / 7.9	G，J，K	28 / 50	200	2.30	330
CFL1008C-1R8□	1800 / 7.9	G，J，K	28 / 50	160	2.60	300
CFL1008C-2R2□	2200 / 7.9	G，J，K	28 / 50	160	2.80	280
CFL1008C-2R7□	2700 / 7.9	G，J，K	22 / 25	135	3.20	290
CFL1008C-3R3□	3300 / 7.9	G，J，K	22 / 25	110	3.40	290
CFL1008C-3R9□	3900 / 7.9	G，J，K	20 / 25	100	3.60	260

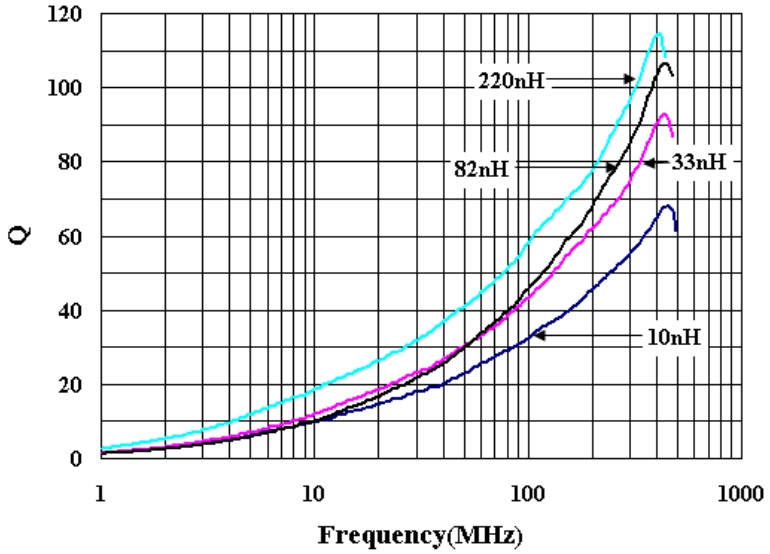
Part Number	L(nH)/@MHz	Inductance tolerance	Q min /@MHz	SRF(MHz) min.	DCR (ΩMax)	IDC(mA) (Max)
CFL1008C-4R7□	4700 / 7.9	G，J，K	20 / 25	90	4.00	260
CFL1008C-5R6□	5600 / 7.9	G，J，K	18 / 7.9	40	4.20	240
CFL1008C-6R8□	6800 / 7.9	G，J，K	18 / 7.9	40	4.90	200
CFL1008C-8R2□	8200 / 7.9	G，J，K	18 / 7.9	25	6.00	170
CFL1008C-100□	10000 / 2.5	G，J，K	18 / 7.9	25	8.00	150

● Electrical curve

L VS FREQUENCY

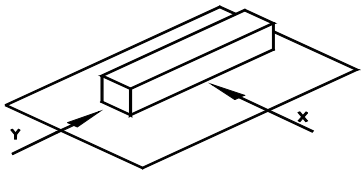


Q VS FREQUENCY



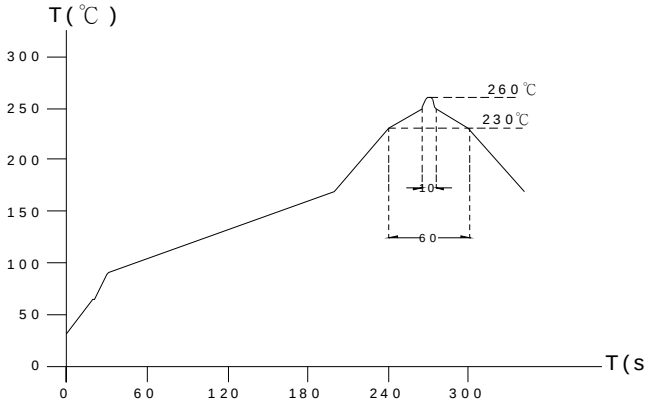
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 125℃(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 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition