

CFL1008C TYPE

●FEATURE

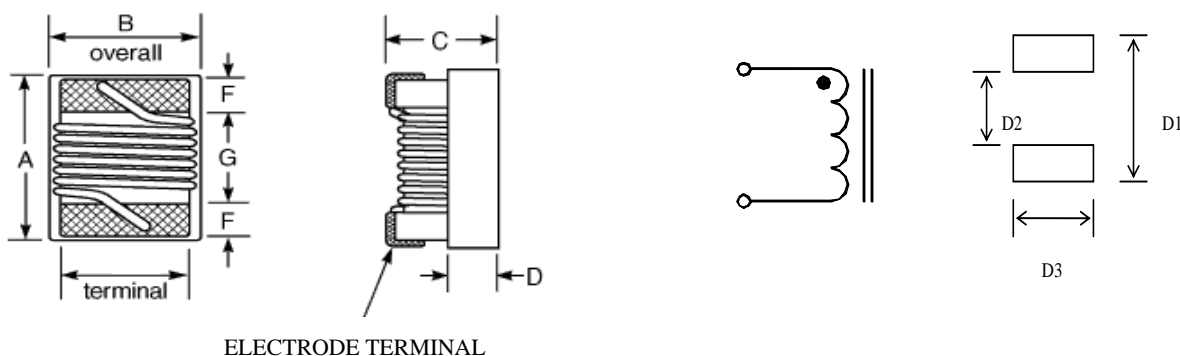
1. High frequency
2. Highest possible SRF as well as excellent Q values

●Applications

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

●Shape and Dimension

●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°C

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

Note4. Ordering code : Part number + Inductance tolerance + customer 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.

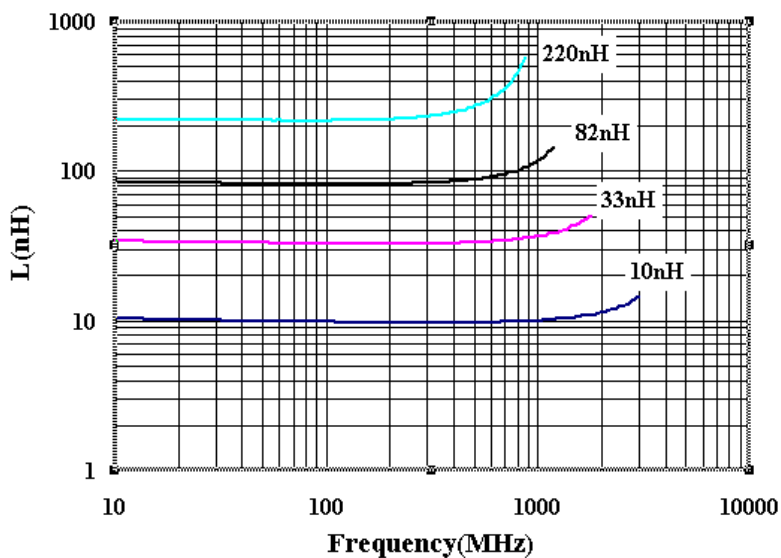
Thank you for your understanding.

Part Number	L(nH)/ @MHz	Inductance tolerance	Q min /@MHz	SRF min MHz	DCR (Ω Max)	Irms (mA Max)	DOT Marking		
							1st	2nd	3rd
CFL1008C-4N7□	4.7 / 50	J , K	30 / 500	4300	0.065	1000	Black	Yellow	Violet
CFL1008C-5N6□	5.6 / 50	J	20 / 500	4200	0.024	1000	Black	Green	Blue
CFL1008C-10N□	10 / 50	G , J , K	50 / 500	4100	0.08	1000	Brown	Black	Black
CFL1008C-12N□	12 / 50	G , J , K	50 / 500	3300	0.09	1000	Brown	Red	Black
CFL1008C-15N□	15 / 50	G , J , K	50 / 500	2500	0.16	1000	Brown	Green	Black
CFL1008C-18N□	18 / 50	G , J , K	50 / 350	2500	0.11	1000	Brown	Gray	Black
CFL1008C-22N□	22 / 50	G , J , K	55 / 350	2400	0.12	1000	Red	Red	Black
CFL1008C-27N□	27 / 50	G , J , K	50 / 350	1600	0.13	1000	Red	Violet	Black
CFL1008C-33N□	33 / 50	G , J , K	60 / 350	1600	0.14	1000	Orange	Orange	Black
CFL1008C-36N□	36 / 50	G , J , K	60 / 350	1600	0.15	1000	Orange	Blue	Black
CFL1008C-39N□	39 / 50	G , J , K	60 / 350	1500	0.15	1000	Orange	White	Black
CFL1008C-43N□	43 / 50	G , J , K	65 / 350	1500	0.16	1000	Yellow	Orange	Black
CFL1008C-47N□	47 / 50	G , J , K	65 / 350	1500	0.16	1000	Yellow	Violet	Black
CFL1008C-56N□	56 / 50	G , J , K	65 / 350	1300	0.18	1000	Green	Blue	Black
CFL1008C-68N□	68 / 50	G , J , K	65 / 350	1300	0.20	1000	Blue	Gray	Black
CFL1008C-75N□	75 / 50	G , J , K	60 / 350	1000	0.21	1000	Violet	Green	Black
CFL1008C-82N□	82 / 50	G , J , K	60 / 350	1000	0.22	1000	Gray	Red	Black
CFL1008C-91N□	91 / 50	G , J , K	60 / 350	1000	0.28	1000	White	Brown	Black
CFL1008C-R10□	100 / 25	G , J , K	60 / 350	1000	0.56	650	Brown	Black	Brown
CFL1008C-R11□	110 / 25	G , J , K	60 / 350	950	0.56	650	Brown	Brown	Brown
CFL1008C-R12□	120 / 25	G , J , K	60 / 350	950	0.63	650	Brown	Red	Brown
CFL1008C-R15□	150 / 25	G , J , K	45 / 100	850	0.70	580	Brown	Green	Brown
CFL1008C-R18□	180 / 25	G , J , K	45 / 100	750	0.77	620	Brown	Gray	Brown
CFL1008C-R22□	220 / 25	G , J , K	45 / 100	700	0.84	500	Red	Red	Brown
CFL1008C-R24□	240 / 25	G , J , K	45 / 100	680	0.90	500	Red	Yellow	Brown
CFL1008C-R25□	250 / 25	G , J , K	45 / 100	650	0.90	500	Red	Green	Brown
CFL1008C-R27□	270 / 25	G , J , K	45 / 100	600	0.91	500	Red	Violet	Brown
CFL1008C-R30□	300 / 25	G , J , K	45 / 100	590	1.00	500	Orange	Black	Brown
CFL1008C-R32□	320 / 25	G , J , K	45 / 100	580	1.03	500	Orange	Red	Brown
CFL1008C-R33□	330 / 25	G , J , K	45 / 100	570	1.05	450	Orange	Orange	Brown
CFL1008C-R35□	350 / 25	G , J , K	45 / 100	550	1.07	450	Orange	Green	Brown
CFL1008C-R36□	360 / 25	G , J , K	45 / 100	520	1.10	470	Orange	Blue	Brown
CFL1008C-R39□	390 / 25	G , J , K	45 / 100	500	1.12	470	Orange	White	Brown
CFL1008C-R43□	430 / 25	G , J , K	45 / 100	470	1.15	470	Yellow	Orange	Brown
CFL1008C-R47□	470 / 25	G , J , K	45 / 100	450	1.19	470	Yellow	Violet	Brown

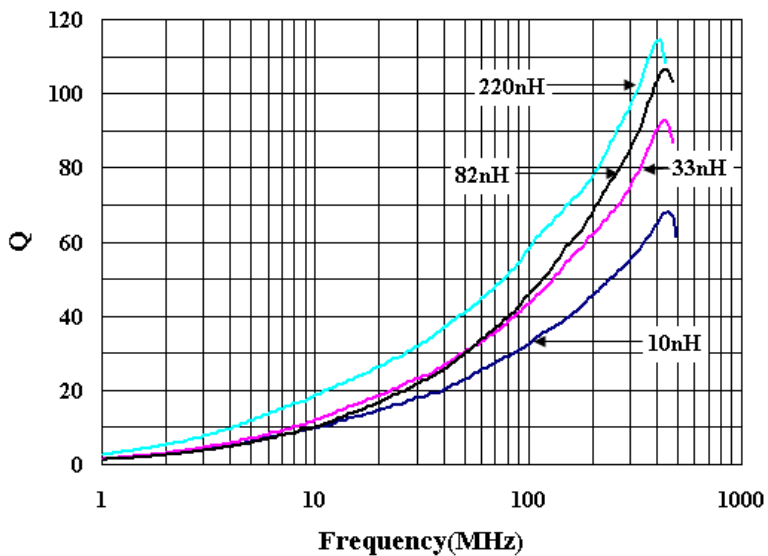
Part Number	L(nH)/ @MHz	Inductance tolerance	Q min /@MHz	SRF min MHz.	DCR (Ω Max)	I _{rms} (mA Max)	DOT Marking		
							1st	2nd	3Red
CFL1008C-R56□	560 / 25	G , J , K	45 / 100	415	1.33	400	Green	Blue	Brown
CFL1008C-R62□	620 / 25	G , J , K	45 / 100	375	1.40	300	Blue	Red	Brown
CFL1008C-R68□	680 / 25	G , J , K	45 / 100	375	1.47	400	Blue	Gray	Brown
CFL1008C-R75□	750 / 25	G , J , K	45 / 100	360	1.54	360	Violet	Green	Brown
CFL1008C-R82□	820 / 25	G , J , K	45 / 100	350	1.61	400	Gray	Red	Brown
CFL1008C-R86□	860 / 25	G , J , K	45 / 100	330	1.65	400	Gray	Blue	Brown
CFL1008C-R91□	910 / 25	G , J , K	35 / 50	320	1.68	380	White	Brown	Brown
CFL1008C-1R0□	1000 / 25	G , J , K	35 / 50	290	1.75	400	Brown	Black	Red
CFL1008C-1R2□	1200 / 7.9	G , J , K	30 / 50	250	2.00	310	Brown	Red	Red
CFL1008C-1R5□	1500 / 7.9	G , J , K	28 / 50	200	2.30	330	Brown	Green	Red
CFL1008C-1R8□	1800 / 7.9	G , J , K	28 / 50	160	2.60	300	Brown	Gray	Red
CFL1008C-2R2□	2200 / 7.9	G , J , K	28 / 50	160	2.80	280	Red	Red	Red
CFL1008C-2R7□	2700 / 7.9	G , J , K	22 / 25	135	3.20	290	Red	Violet	Red
CFL1008C-3R0□	3300 / 7.9	G , J , K	22 / 25	110	3.30	290	Orange	Black	Red
CFL1008C-3R3□	3300 / 7.9	G , J , K	22 / 25	110	3.40	290	Orange	Orange	Red
CFL1008C-3R9□	3900 / 7.9	G , J , K	20 / 25	100	3.60	260	Orange	White	Red
CFL1008C-4R7□	4700 / 7.9	G , J , K	20 / 25	90	4.00	260	Yellow	Violet	Red
CFL1008C-5R6□	5600 / 7.9	G , J , K	18 / 7.9	40	4.20	240	Green	Blue	Red
CFL1008C-6R8□	6800 / 7.9	G , J , K	18 / 7.9	40	4.90	200	Blue	Gray	Red
CFL1008C-8R2□	8200 / 7.9	G , J , K	18 / 7.9	25	6.00	170	Gray	Red	Red
CFL1008C-100□	10000 / 2.5	G , J , K	18 / 7.9	25	8.00	150	Brown	Black	Orange

● Electrical curve

L VS FREQUENCY



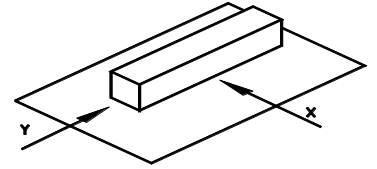
Q VS FREQUENCY



GENERAL CHARACTERISTICS

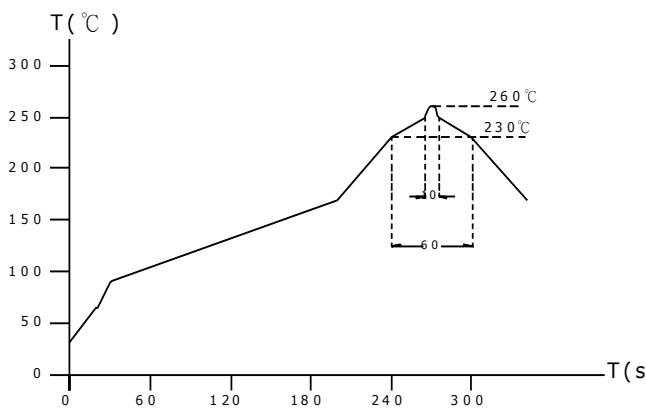
1. Operating temperature range: -40 TO + 125°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at 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 $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ $(-25\sim +80^{\circ}\text{C})$.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, after vibration for 1 hour. In each of three orientations at sweep vibration $(10\sim 55\sim 10\text{ Hz})$ with 1.5mm P-P amplitudes.
9. Shock resistance: Inductance deviation within $\pm 5\%$, after being dropped once with 981m/s^2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
10. Resistance to Soldering Heat: 260°C , 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ (Generally: $21^{\circ}\text{C} \sim 31^{\circ}\text{C}$) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: $-35^{\circ}\text{C} \sim 85^{\circ}\text{C}$, 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

