

CFL1206C TYPE

● FEATURE

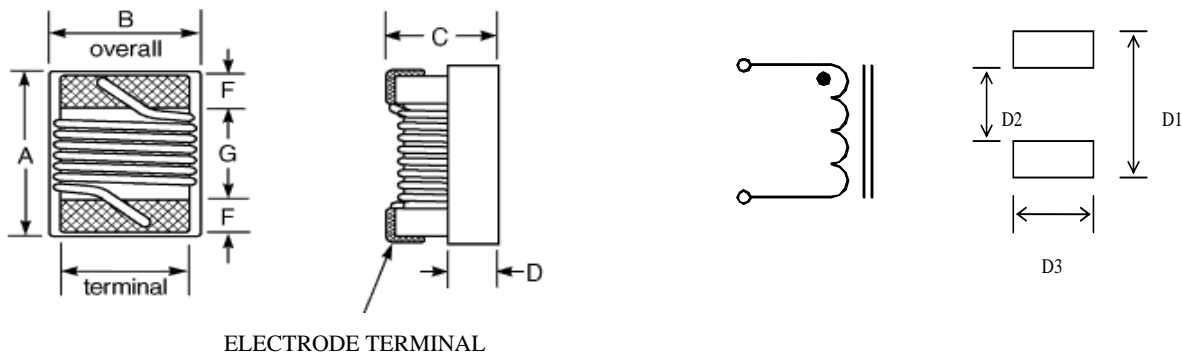
1. High frequency
2. Highest possible SRF as well as excellent Q values

● 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
CFL1206C	3.60	2.20	1.60	0.51	0.51	2.60	3.90	1.80	2.0

Note1. Measurement equipment of electrical : HP E4991A

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

Note3. Inductance tolerance: J: ±5% ; K: ±10%

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

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

Thank you for your understanding.

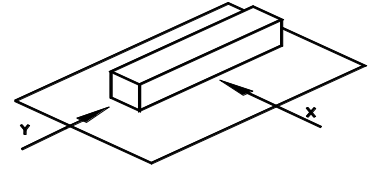
Part Number	L(nH)/ @MHz	Inductance tolerance	Q min /@MHz	SRF min. MHz	DCR (Ω Max)	IDC (mA Max)	DOT Marking		
							1st	2nd	3rd
CFL1206C-6N8□	6.8 / 100	J · K	30 / 300	5500	0.07	1000	Blue	Gray	Black
CFL1206C-8N2□	8.2 / 100	J · K	15 / 300	3200	0.18	1000	Black	Gray	Black
CFL1206C-10N□	10 / 100	J · K	40 / 300	4000	0.08	1000	Brown	Black	Black
CFL1206C-12N□	12 / 100	J · K	40 / 300	3200	0.08	1000	Brown	Red	Black
CFL1206C-15N□	15 / 100	J · K	40 / 300	3200	0.10	1000	Brown	Green	Black
CFL1206C-22N□	22 / 100	J · K	50 / 300	2200	0.10	1000	Red	Red	Black
CFL1206C-24N□	24 / 100	J · K	50 / 300	2000	0.10	1000	Red	Yellow	Black
CFL1206C-27N□	27 / 100	J · K	50 / 300	1800	0.11	1000	Red	Violet	Black
CFL1206C-33N□	33 / 100	J · K	55 / 300	1800	0.14	1000	Orange	Orange	Black
CFL1206C-39N□	39 / 100	J · K	55 / 300	1800	0.12	1000	Orange	White	Black
CFL1206C-47N□	47 / 100	J · K	55 / 300	1500	0.19	1000	Yellow	Violet	Black
CFL1206C-56N□	56 / 100	J · K	55 / 300	1450	0.22	1000	Green	Blue	Black
CFL1206C-62N□	62 / 100	J · K	55 / 300	1200	0.20	1000	Blue	Red	Black
CFL1206C-68N□	68 / 100	J · K	55 / 300	1200	0.27	900	Blue	Gray	Black
CFL1206C-82N□	82 / 100	J · K	55 / 300	1150	0.26	860	Gray	Red	Black
CFL1206C-91N□	91 / 100	J · K	55 / 300	1100	0.24	900	White	Brown	Black
CFL1206C-R10□	100 / 100	J · K	55 / 300	1100	0.26	850	Brown	Black	Brown
CFL1206C-R12□	120 / 100	J · K	60 / 300	1100	0.32	800	Brown	Red	Brown
CFL1206C-R15□	150 / 100	J · K	60 / 300	950	0.36	750	Brown	Green	Brown
CFL1206C-R18□	180 / 50	J · K	60 / 300	900	0.43	700	Brown	Gray	Brown
CFL1206C-R22□	220 / 50	J · K	60 / 300	760	0.50	670	Red	Red	Brown
CFL1206C-R27□	270 / 50	J · K	55 / 300	730	0.56	630	Red	Violet	Brown
CFL1206C-R30□	300 / 50	J · K	45 / 300	700	0.58	600	Orange	Black	Brown
CFL1206C-R33□	330 / 50	J · K	45 / 150	650	0.62	590	Orange	Orange	Brown
CFL1206C-R36□	360 / 50	J · K	45 / 150	600	0.65	550	Orange	Blue	Brown
CFL1206C-R39□	390 / 50	J · K	45 / 150	600	0.75	530	Orange	White	Brown
CFL1206C-R43□	430 / 50	J · K	47 / 150	600	1.25	510	Yellow	Orange	Brown
CFL1206C-R47□	470 / 50	J · K	47 / 150	550	1.30	490	Yellow	Violet	Brown
CFL1206C-R56□	560 / 35	J · K	45 / 150	470	1.45	460	Green	Blue	Brown
CFL1206C-R62□	620 / 35	J · K	45 / 150	465	1.52	455	Blue	Red	Brown
CFL1206C-R68□	680 / 35	J · K	45 / 150	460	1.55	450	Blue	Gray	Brown
CFL1206C-R75□	750 / 35	J · K	45 / 150	440	2.25	320	Violet	Green	Brown
CFL1206C-R82□	820 / 35	J · K	45 / 150	420	1.82	400	Gray	Red	Brown
CFL1206C-R91□	910 / 35	J · K	45 / 150	410	2.75	350	White	Brown	Brown
CFL1206C-1R0□	1000 / 35	J · K	45 / 150	400	2.80	320	Brown	Black	Red

Part Number	L(nH)/ @MHz	Inductance tolerance	Q min /@MHz	SRF min. MHz	DCR (Ω Max)	IDC (mA Max)	DOT Marking		
							1st	2nd	3rd
CFL1206C-1R2□	1200 / 35	J · K	45 / 150	380	3.20	300	Brown	Red	Red
CFL1206C-1R8□	1800 / 7.96	J · K	25 / 25.2	200	3.90	300	Brown	Gray	Red

GENERAL CHARACTERISTICS

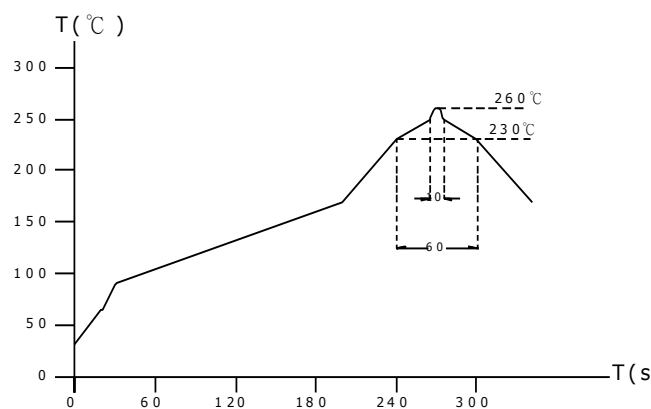
1. Operating temperature range: -40 TO + 125°C (Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at 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/s² (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°C ~ 35°C (Generally: 21°C ~ 31°C) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35°C ~ 85°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

