

CFL0402C TYPE

●FEATURE

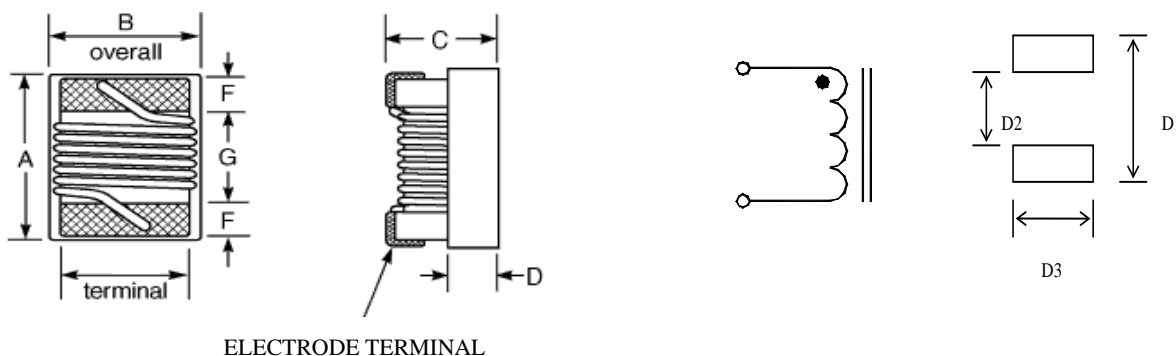
1. High frequency
2. Highest possible SRF as well as excellent Q values

●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
CFL0402C	1.19	0.65	0.66	0.20	0.20	0.64	1.20	0.46	0.68

Note1. Measurement equipment of electrical : HP E4991A

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

Note3. Inductance tolerance: G: ±2% ; J: ±5% ; K: ±10%

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

Note5. Unit weight: 0.0008g (for ref.) ; without marking on the top of product.

Note6. This specification might be changed without notice due to under developing and improving.

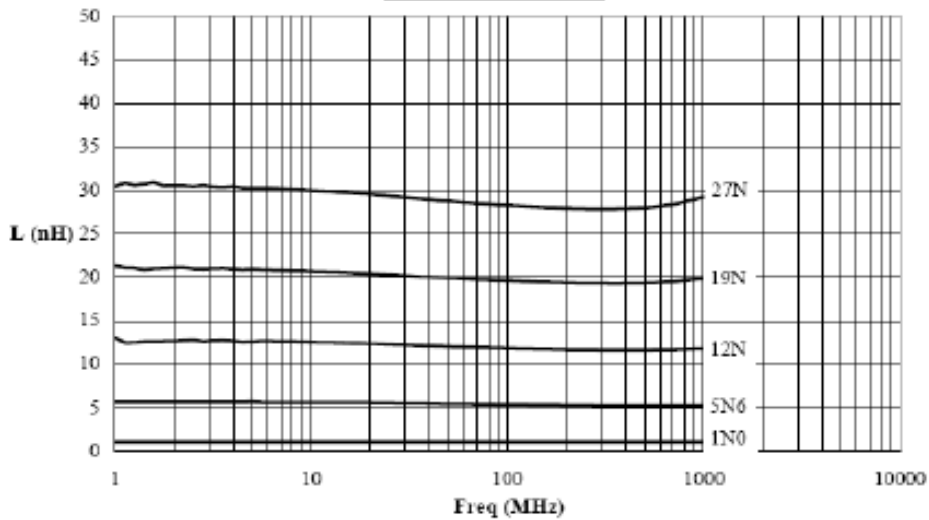
Thank you for your understanding.

Part Number	L(nH)/@MHz	Inductance tolerance	Q min @250MHz	SRF(MHz) min.	DCR (Ω Max)	IDC(mA) (Max)
CFL0402C-1N0□	1.0 / 250	J , K	13	6000	0.045	1360
CFL0402C-1N8□	1.8 / 250	J , K	16	6000	0.070	1040
CFL0402C-1N9□	1.9 / 250	J , K	16	6000	0.070	1040
CFL0402C-2N0□	2.0 / 250	J , K	16	6000	0.070	1040
CFL0402C-2N2□	2.2 / 250	J , K	19	6000	0.070	960
CFL0402C-2N4□	2.4 / 250	J , K	15	6000	0.068	790
CFL0402C-2N7□	2.7 / 250	J , K	16	6000	0.120	640
CFL0402C-3N3□	3.3 / 250	J , K	19	6000	0.066	840
CFL0402C-3N6□	3.6 / 250	J , K	19	6000	0.066	840
CFL0402C-3N9□	3.9 / 250	J , K	19	6000	0.066	840
CFL0402C-4N3□	4.3 / 250	J , K	18	6000	0.091	700
CFL0402C-4N7□	4.7 / 250	J , K	15	4700	0.130	640
CFL0402C-5N1□	5.1 / 250	J , K	20	4800	0.083	800
CFL0402C-5N6□	5.6 / 250	J , K	20	4800	0.083	760
CFL0402C-6N2□	6.2 / 250	J , K	20	4800	0.083	760
CFL0402C-6N8□	6.8 / 250	G , J , K	20	4800	0.083	680
CFL0402C-7N5□	7.5 / 250	G , J , K	22	4800	0.100	680
CFL0402C-8N2□	8.2 / 250	G , J , K	22	4400	0.100	680
CFL0402C-8N7□	8.7 / 250	G , J , K	18	4100	0.200	480
CFL0402C-9N1□	9.1 / 250	G , J , K	22	4160	0.100	680
CFL0402C-9N5□	9.5 / 250	G , J , K	18	4000	0.200	480
CFL0402C-10N□	10 / 250	G , J , K	21	3900	0.200	480
CFL0402C-11N□	11 / 250	G , J , K	24	3680	0.120	640
CFL0402C-12N□	12 / 250	G , J , K	24	3600	0.120	640
CFL0402C-13N□	13 / 250	G , J , K	24	3450	0.210	440
CFL0402C-15N□	15 / 250	G , J , K	24	3280	0.170	560
CFL0402C-16N□	16 / 250	G , J , K	24	3100	0.220	560
CFL0402C-18N□	18 / 250	G , J , K	25	3100	0.230	420
CFL0402C-19N□	19 / 250	G , J , K	24	3040	0.200	480
CFL0402C-20N□	20 / 250	G , J , K	25	3000	0.250	420
CFL0402C-22N□	22 / 250	G , J , K	25	2800	0.300	400
CFL0402C-23N□	23 / 250	G , J , K	22	2720	0.300	400
CFL0402C-24N□	24 / 250	G , J , K	25	2700	0.300	400
CFL0402C-27N□	27 / 250	G , J , K	24	2480	0.300	400
CFL0402C-30N□	30 / 250	G , J , K	25	2350	0.300	400

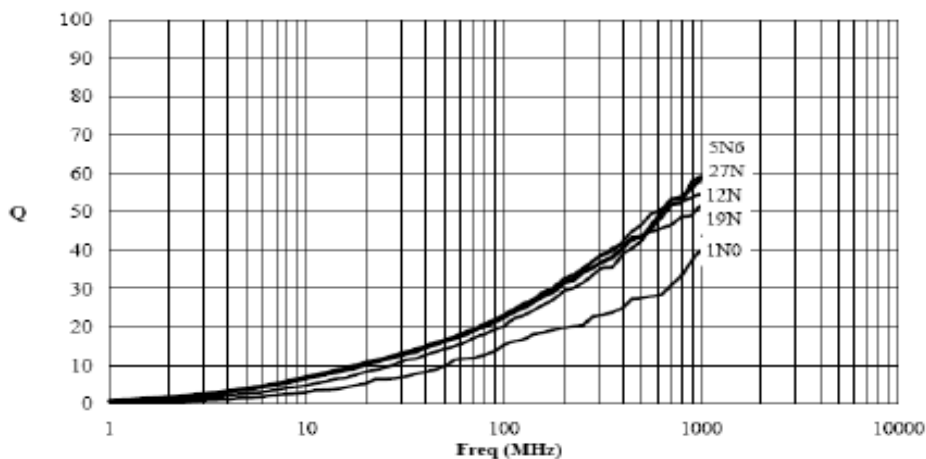
Part Number	L(nH)/@MHz	Inductance tolerance	Q min @250MHz	SRF(MHz) min.	DCR (Ω Max)	IDC(mA) (Max)
CFL0402C-33N□	33 / 250	G , J , K	24	2350	0.440	400
CFL0402C-36N□	36 / 250	G , J , K	24	2350	0.440	320
CFL0402C-39N□	39 / 250	G , J , K	25	2100	0.550	200
CFL0402C-40N□	40 / 250	G , J , K	24	2240	0.440	320
CFL0402C-43N□	43 / 250	G , J , K	25	2030	0.810	100
CFL0402C-47N□	47 / 200	G , J , K	20	2100	0.830	150
CFL0402C-51N□	51 / 200	G , J , K	25	1750	0.820	100
CFL0402C-56N□	56 / 200	G , J , K	22	1760	0.970	100
CFL0402C-68N□	68 / 200	G , J , K	22	1620	1.120	100
CFL0402C-82N□	82 / 150	J , K	20	1260	1.550	50
CFL0402C-R10□	100 / 150	G , J , K	20	1160	2.000	30
CFL0402C-R12□	120 / 150	G , J , K	20	1900	2.200	50

●Electrical curve

L VS FREQUENCY



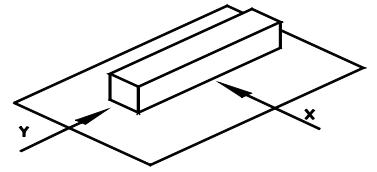
Q VS FREQUENCY



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~+80°C degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
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 (10~55~10 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 condition: Temperature Range: $0^{\circ}\text{C} \sim 35^{\circ}\text{C}$; $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (after PCB) · Humidity Range: 50% ~ 70% 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

