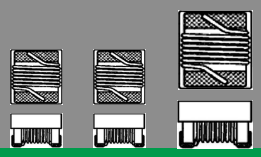
An ISO 9001 Company

CERAMIC CHIP INDUCTOR

– ECFL0805C SERIES



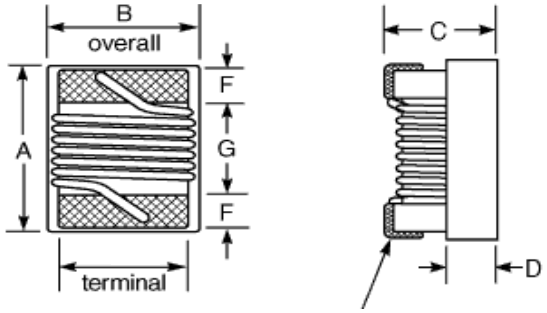
●FEATURE

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

●Applications

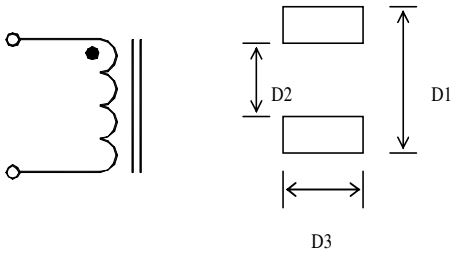
1. Pager, Cordless phone and High freq. communication products

●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
ECFL0805C	2.40	1.60	1.40	0.51	0.44	1.45	2.80	0.76	1.78

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: ±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.

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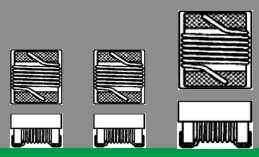

Part Number	L(nH)/@MHz	Inductance tolerance	Q min /@MHz	SRF(MHz) min.	DCR (ΩMax)	Irms(mA) (Max)
ECFL0805C-2N2□	2.2 / 250	K	50 / 1000	7900	0.05	800
ECFL0805C-2N7□	2.7 / 250	J，K	50 / 1500	7900	0.06	800
ECFL0805C-2N8□	2.8 / 250	J，K	55 / 1500	7900	0.06	800
ECFL0805C-3N0□	3.0 / 250	J，K	55 / 1500	7900	0.08	800
ECFL0805C-3N3□	3.3 / 250	J，K	45 / 1500	7900	0.12	600
ECFL0805C-5N1□	5.1 / 250	J，K	60 / 1000	5800	0.06	600
ECFL0805C-5N6□	5.6 / 250	J，K	65 / 1000	5500	0.08	600
ECFL0805C-6N2□	6.2 / 250	J，K	65 / 1000	5500	0.11	600
ECFL0805C-6N8□	6.8 / 250	J，K	50 / 1000	5500	0.11	600
ECFL0805C-7N5□	7.5 / 250	J，K	50 / 1000	4500	0.14	600
ECFL0805C-8N2□	8.2 / 250	J，K	50 / 1000	4700	0.16	600
ECFL0805C-10N□	10 / 250	G，J，K	60 / 500	4200	0.10	600
ECFL0805C-12N□	12 / 250	G，J，K	50 / 500	4000	0.15	600
ECFL0805C-15N□	15 / 250	G，J，K	50 / 500	3400	0.17	600
ECFL0805C-18N□	18 / 250	G，J，K	50 / 500	3300	0.20	600
ECFL0805C-22N□	22 / 250	G，J，K	55 / 500	2600	0.22	500
ECFL0805C-24N□	24 / 250	G，J，K	50 / 500	2000	0.22	500
ECFL0805C-27N□	27 / 250	G，J，K	55 / 500	2500	0.25	500
ECFL0805C-33N□	33 / 250	G，J，K	60 / 500	2050	0.27	500
ECFL0805C-36N□	36 / 250	G，J，K	55 / 500	1700	0.27	500
ECFL0805C-39N□	39 / 250	G，J，K	60 / 500	2000	0.29	500
ECFL0805C-43N□	43 / 200	G，J，K	60 / 500	1650	0.34	500
ECFL0805C-47N□	47 / 200	G，J，K	60 / 500	1650	0.31	500
ECFL0805C-56N□	56 / 200	G，J，K	60 / 500	1550	0.34	500
ECFL0805C-68N□	68 / 200	G，J，K	60 / 500	1450	0.38	500
ECFL0805C-75N□	75 / 200	G，J，K	60 / 500	1400	0.40	400
ECFL0805C-82N□	82 / 150	G，J，K	65 / 500	1300	0.42	400
ECFL0805C-91N□	91 / 150	G，J，K	65 / 500	1200	0.48	400
ECFL0805C-R10□	100 / 150	G，J，K	65 / 500	1200	0.46	400
ECFL0805C-R11□	110 / 150	G，J，K	50 / 250	1000	0.48	400
ECFL0805C-R12□	120 / 150	G，J，K	50 / 250	1100	0.51	400
ECFL0805C-R15□	150 / 100	G，J，K	50 / 250	920	0.56	400
ECFL0805C-R16□	160 / 100	G，J，K	50 / 250	900	0.60	400
ECFL0805C-R18□	180 / 100	G，J，K	50 / 250	870	0.64	400
ECFL0805C-R20□	200 / 100	G，J，K	50 / 250	865	0.68	400

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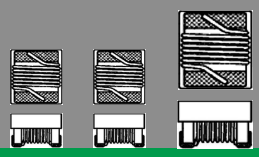
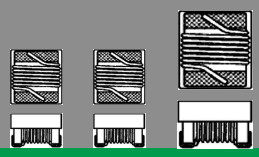
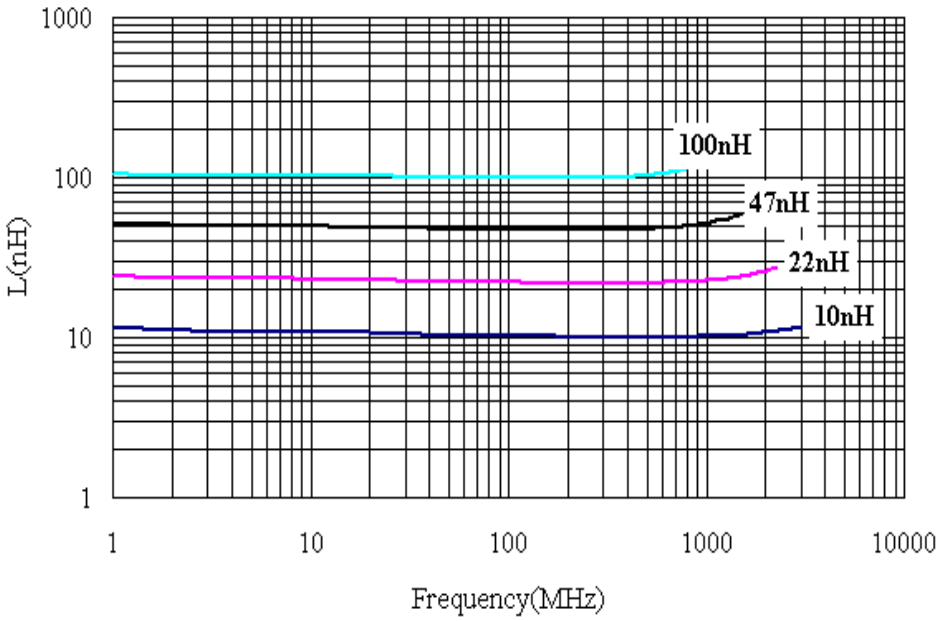


Part Number	L(nH)/@MHz	Inductance tolerance	Q min /@MHz	SRF(MHz) min.	DCR (ΩMax)	IDC(mA) (Max)
ECFL0805C-R22□	220 / 100	G，J，K	50 / 250	850	0.70	400
ECFL0805C-R24□	240 / 100	G，J，K	44 / 250	690	1.00	350
ECFL0805C-R25□	250 / 100	G，J，K	48 / 250	680	1.00	350
ECFL0805C-R27□	270 / 100	G，J，K	48 / 250	650	1.00	350
ECFL0805C-R33□	330 / 100	G，J，K	48 / 250	750	1.40	310
ECFL0805C-R39□	390 / 100	G，J，K	48 / 250	560	1.50	290
ECFL0805C-R47□	470 / 50	G，J，K	30 / 100	375	1.76	250
ECFL0805C-R56□	560 / 25	G，J，K	23 / 50	340	1.90	230
ECFL0805C-R62□	620 / 25	G，J，K	23 / 50	220	2.20	210
ECFL0805C-R68□	680 / 25	G，J，K	23 / 50	188	2.20	190
ECFL0805C-R75□	750 / 25	G，J，K	23 / 50	200	2.30	180
ECFL0805C-R82□	820 / 25	G，J，K	23 / 50	215	2.35	180
ECFL0805C-1R0□	1000 / 25	G，J，K	22 / 50	200	2.45	180
ECFL0805C-1R5□	1500 / 7.9	G，J，K	16 / 7.9	120	2.50	170
ECFL0805C-1R8□	1800 / 7.9	G，J，K	16 / 7.9	80	2.50	170
ECFL0805C-2R2□	2200 / 7.9	G，J，K	16 / 7.9	60	2.70	160
ECFL0805C-2R7□	2700 / 7.9	G，J，K	16 / 7.9	50	4.00	160
ECFL0805C-4R7□	4700 / 7.9	J，K	10 / 7.9	40	15.0	130

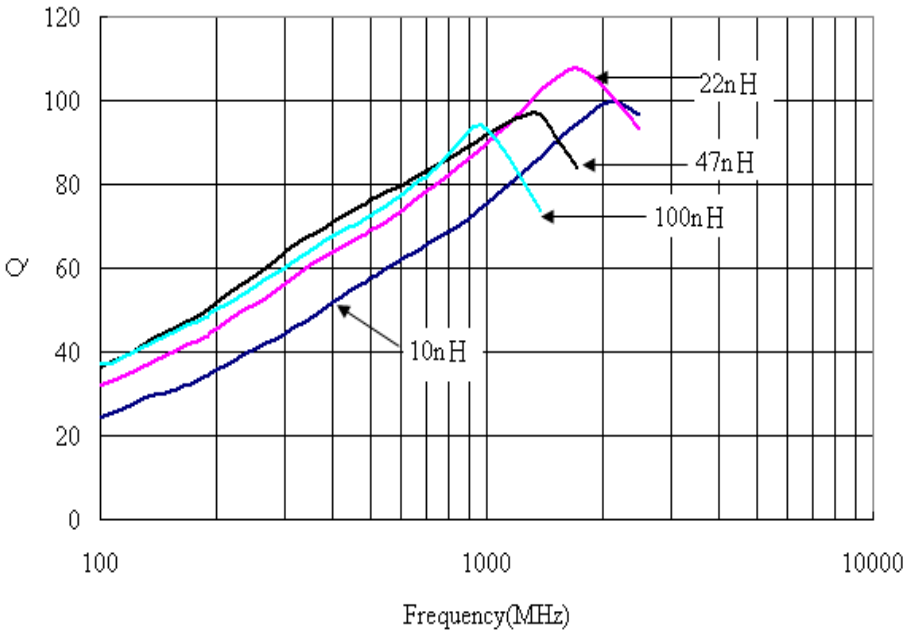


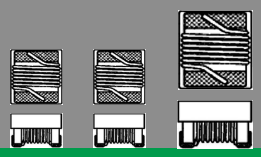
●Electrical curve

L VS FREQUENCY



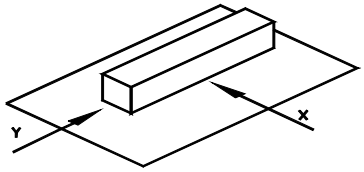
Q VS FREQUENCY





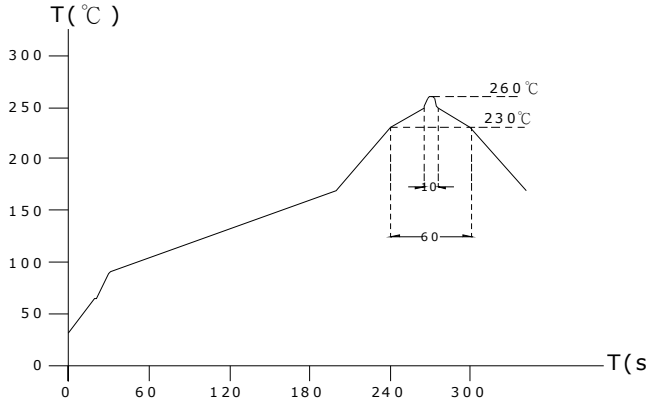
GENERAL CHARACTERISTICS

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.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 (0~2,000)x10-6/℃(-25~+80℃ degree Celsius), inductance deviation within±5.0%, after 96 hours.
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 condition: Temperature Range: 0℃ ~ 35℃；-40℃ ~ 105℃ (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