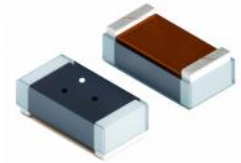


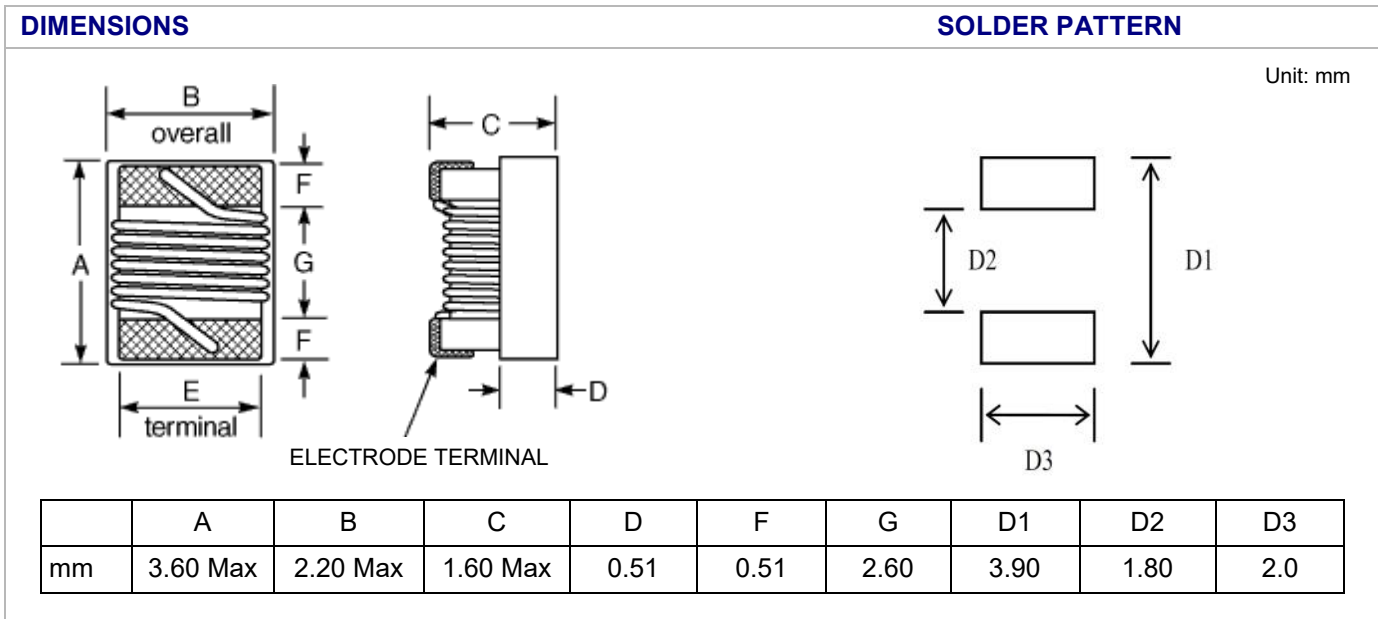
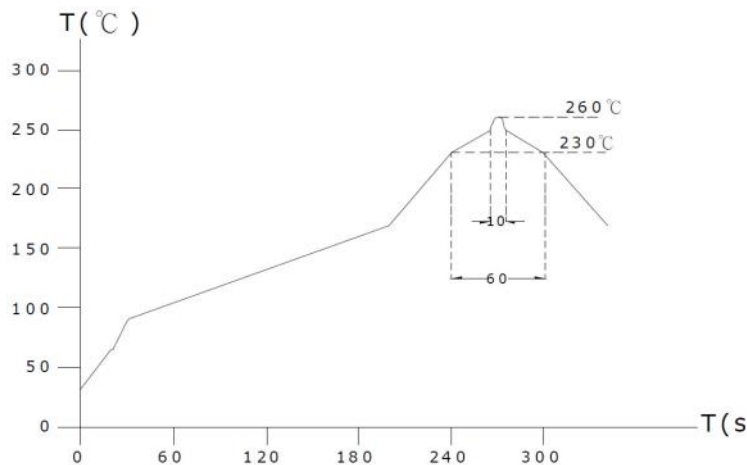
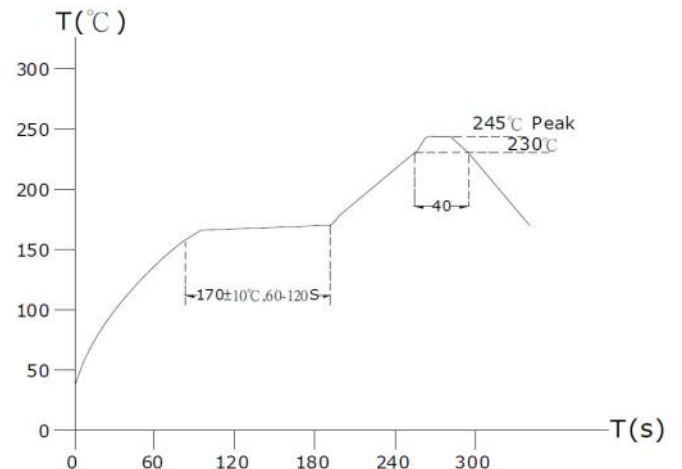
**Ceramic Chip Inductor (3.6 x 2.2 x 1.63 mm)**
**FEATURES**

- SMD Package
- High SRF
- High Frequency
- High Q value


**SPECIFICATION**

Part Number	L(nH)/@MHz	Q min /@MHz	SRF(MHz) min	DCR ( $\Omega$ ) Max	IDC (mA) Max
TCFL1206CF-6N8_	6.8 / 100	30 / 300	5500	0.07	1000
TCFL1206CF-8N2_	8.2 / 100	15 / 300	3200	0.18	1000
TCFL1206CF-10N_	10 / 100	40 / 300	4000	0.08	1000
TCFL1206CF-12N_	12 / 100	40 / 300	3200	0.08	1000
TCFL1206CF-15N_	15 / 100	40 / 300	3200	0.10	1000
TCFL1206CF-22N_	22 / 100	50 / 300	2200	0.10	1000
TCFL1206CF-24N_	24 / 100	50 / 300	2000	0.10	1000
TCFL1206CF-27N_	27 / 100	50 / 300	1800	0.11	1000
TCFL1206CF-33N_	33 / 100	55 / 300	1800	0.14	1000
TCFL1206CF-39N_	39 / 100	55 / 300	1800	0.12	1000
TCFL1206CF-47N_	47 / 100	55 / 300	1500	0.19	1000
TCFL1206CF-56N_	56 / 100	55 / 300	1450	0.22	1000
TCFL1206CF-62N_	62 / 100	55 / 300	1200	0.20	1000
TCFL1206CF-68N_	68 / 100	55 / 300	1200	0.27	900
TCFL1206CF-82N_	82 / 100	55 / 300	1150	0.26	860
TCFL1206CF-91N_	91 / 100	55 / 300	1100	0.24	900
TCFL1206CF-R10_	100 / 100	55 / 300	1100	0.26	850
TCFL1206CF-R12_	120 / 100	60 / 300	1100	0.32	800
TCFL1206CF-R15_	150 / 100	60 / 300	950	0.36	750
TCFL1206CF-R18_	180 / 50	60 / 300	900	0.43	700
TCFL1206CF-R22_	220 / 50	60 / 300	760	0.50	670
TCFL1206CF-R27_	270 / 50	55 / 300	730	0.56	630
TCFL1206CF-R30_	300 / 50	45 / 300	700	0.58	600
TCFL1206CF-R33_	330 / 50	45 / 150	650	0.62	590
TCFL1206CF-R36_	360 / 50	45 / 150	600	0.65	550
TCFL1206CF-R39_	390 / 50	45 / 150	600	0.75	530
TCFL1206CF-R43_	430 / 50	47 / 150	600	1.25	510
TCFL1206CF-R47_	470 / 50	47 / 150	550	1.30	490
TCFL1206CF-R56_	560 / 35	45 / 150	470	1.45	460
TCFL1206CF-R62_	620 / 35	45 / 150	465	1.52	455
TCFL1206CF-R68_	680 / 35	45 / 150	460	1.55	450
TCFL1206CF-R75_	750 / 35	45 / 150	440	2.25	320
TCFL1206CF-R82_	820 / 35	45 / 150	420	1.82	400
TCFL1206CF-R91_	910 / 35	45 / 150	410	2.75	350
TCFL1206CF-1R0_	1000 / 35	45 / 150	400	2.80	320
TCFL1206CF-1R2_	1200 / 35	45 / 150	380	3.20	300
TCFL1206CF-1R8_	1800 / 7.96	25 / 25.2	200	3.90	300

- Specifications are measured using HP E4991B
- Inductance tolerance: Letter at end of part number: J =  $\pm 5\%$  ; K =  $\pm 10\%$


**LEAD-FREE HEAT ENDURANCE TEST**

**LEAD-FREE RECOMMENDED REFLOW**


## RELIABILITY TEST

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)  
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  $981\text{m/s}^2$  (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 recommend reflow)
11. Storage environment  
Temperature: 10°C~35°C; -35°C~85°C (after mounting on PCB)  
Humidity Range: 50% ~ 80% RH
12. Use components within 12 months.  
If 12 months or more have elapsed, check solderability before use.

