

CFL322522SF TYPE

● FEATURE

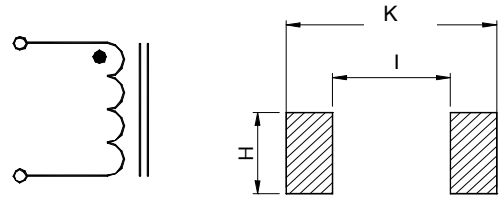
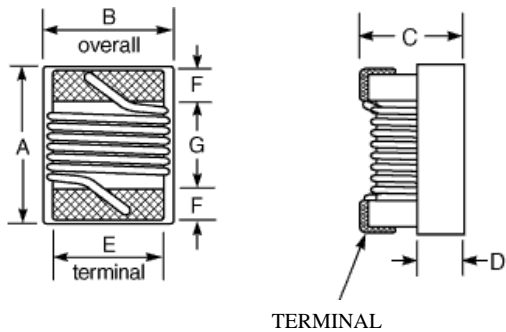
1. Wire wound SMD inductors, signal line used.
2. Highly accurate dimensions and reliable

● Applications

1. Hard Disk drives, and other electronic equipment

● Shape and Dimension

● Schematics and Land Patterns(mm)



● Specification

Dimension in m/m

TYPE	A	B	C	D	E	F	G	K	H	I
CFL322522SF	3.60Max	2.90Max	2.50Max	1.10	2.50	0.50	2.40	4.00	2.70	2.00

Note1. Measurement frequency of Inductance value : at electrical characteristics

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

Note3. IDC : This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at $\Delta t=20^{\circ}\text{C}$, which is lower. ($T_a=20^{\circ}\text{C}$)

Note4. Inductance tolerance: J: $\pm 5\%$;K: $\pm 10\%$; M: $\pm 20\%$

Note5. Ordering Code (P/N)

1. TYPE NAME : CFL322522SF

2. INDUCTANCE VALUE : 100(10uH)

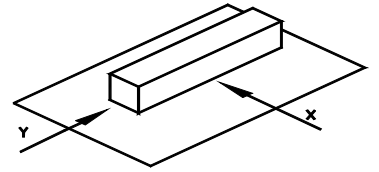
3. INDUCTANCE TOLERANCE : (see Note4)

P/N	L (μ H)	TEST FREQ. (MHz)	Q Min	SRF (MHz) TYP.	RDC (Ω)Max	IDC (mA)Max
CFL322522SF-R12K	0.12	25	40	1000	0.07	2000
CFL322522SF-R18□	0.18	25	40	900	0.12	1900
CFL322522SF-R22□	0.22	25	40	600	0.18	1700
CFL322522SF-R27□	0.27	25	40	600	0.23	1600
CFL322522SF-R33□	0.33	25	40	500	0.27	1500
CFL322522SF-R39□	0.39	25	40	500	0.30	1500
CFL322522SF-R56□	0.56	25	35	440	0.35	1400
CFL322522SF-R82□	0.82	25	35	340	0.38	1300
CFL322522SF-1R0□	1.0	7.9	35	320	0.42	1200
CFL322522SF-1R5□	1.5	7.9	35	250	0.50	1100
CFL322522SF-1R8□	1.8	7.9	40	203	0.62	1000
CFL322522SF-2R2□	2.2	7.9	33	200	0.65	1000
CFL322522SF-2R7□	2.7	7.9	40	200	0.65	1000
CFL322522SF-3R0□	3.0	7.9	40	180	0.78	800
CFL322522SF-3R3□	3.3	7.9	30	146	0.83	1200
CFL322522SF-3R9□	3.9	7.9	30	139	1.74	900
CFL322522SF-4R7□	4.7	7.9	35	124	1.90	800
CFL322522SF-5R6□	5.6	7.9	30	114	2.05	700
CFL322522SF-6R8□	6.8	7.9	30	109	1.37	450
CFL322522SF-100□	10	2.5	23	90	1.70	590
CFL322522SF-150□	15	2.5	25	67	2.22	340
CFL322522SF-180□	18	2.5	25	57	2.42	330
CFL322522SF-220□	22	2.5	25	48	2.66	300
CFL322522SF-270□	27	2.5	25	38	2.99	250
CFL322522SF-680□	68	2.5	23	15	4.50	340
CFL322522SF-820□	82	2.5	23	15	5.95	300
CFL322522SF-101□	100	1	15	14	6.62	250
CFL322522SF-151□	150	1	15	11	8.29	135
CFL322522SF-181□	180	1	15	10	11.53	100
CFL322522SF-221□	220	1	15	8	12.48	80

GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105°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/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 condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 105°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

