CFL252018SF TYPE

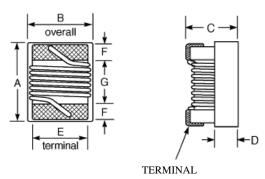
•FEATURE

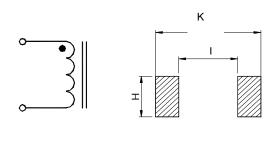
- 1. Wire wound SMD inductors, signal line used
- 2. Highly accurate dimensions and reliable

Applications

- 1. Hard Disk drives, and other electronic equipment
- Shape and Dimension

Schematics and Land Patterns(mm)





Specification

Dimension in m/m

TYPE	A	В	С	D	Е	F	G	K	Н	I
CFL252018SF(1008)	2.90Max	2.54Max	2.05Max	1.30	2.00	0.50	1.50	3.31	2.54	1.27

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 $\Delta t = 25^{\circ}\text{C}$, which is lower.(Ta=20 $^{\circ}\text{C}$)

Note4. Inductance tolerance: J: ±5% ;K: ±10% ; M: ±20%

Note5. Ordering Code (P/N)

1.TYPE NAME: CFL252018SF

2.INDUCTANCE VALUE: 100(10uH)

3.INDUCTANCE TOLERANCE : ☐(see Note4)

FENG-JUI TECHNOLOGY CO., LTD

FERRITE CHIP INDUCTOR-RoHS

P/N	L(µH)	Inductance	Q Min	SRF	RDC	IDC
	/MHz	Tolerance	/MHz	(MHz) Min	(Ω)Max	(mA)Max
CFL252018SF-R22	0.22 / 25	J [,] K	30 / 25	930	0.40	880
CFL252018SF-R56	0.56 / 25	J [,] K	30 / 25	460	0.55	900
CFL252018SF-R62	0.62 / 25	J [,] K	30 / 25	460	0.55	900
CFL252018SF-R68	0.68 / 25	J [,] K	30 / 25	420	0.55	880
CFL252018SF-R75	0.75 / 25	J [,] K	30 / 25	420	0.65	880
CFL252018SF-R82	0.82 / 25	J [,] K	30 / 25	380	0.65	840
CFL252018SF-R91	0.91 / 25	J [,] K	30 / 25	400	0.65	840
CFL252018SF-1R0	1.0 / 7.9	J [,] K	25 / 7.9	300	0.60	800
CFL252018SF-1R2	1.2 / 7.9	J · K	25 / 7.9	280	0.74	800
CFL252018SF-1R5	1.5 / 7.9	J [,] K	25 / 7.9	245	0.85	780
CFL252018SF-1R8	1.8 / 7.9	J [,] K	25 / 7.9	240	0.92	780
CFL252018SF-2R2	2.2 / 7.9	J [,] K	25 / 7.9	205	1.10	760
CFL252018SF-2R7	2.7 / 7.9	J [,] K	25 / 7.9	187	1.22	760
CFL252018SF-3R3	3.3 / 7.9	J [,] K	25 / 7.9	165	1.37	740
CFL252018SF-3R9	3.9 / 7.9	J · K	25 / 7.9	144	1.66	700
CFL252018SF-4R7	4.7 / 7.9	J [,] K	25 / 7.9	110	1.68	660
CFL252018SF-5R6	5.6 / 7.9	J [,] K	25 / 7.9	88	1.75	640
CFL252018SF-6R8	6.8 / 7.9	J [,] K	25 / 7.9	70	1.85	640
CFL252018SF-8R2	8.2 / 7.9	J [,] K	25 / 7.9	57	2.00	600
CFL252018SF-100	10 / 2.5	J , K	20 / 7.9	55	2.32	600
CFL252018SF-120	12 / 2.5	J [,] K	15 / 2.5	52	2.99	560
CFL252018SF-150	15 / 2.5	J [,] K	15 / 2.5	49	3.42	480
CFL252018SF-180	18 / 2.5	J [,] K	15 / 2.5	48	4.65	420
CFL252018SF-220	22 / 2.5	J [,] K	15 / 2.5	25	5.12	420
CFL252018SF-270	27 / 2.5	J [,] K	15 / 2.5	23	5.76	420
CFL252018SF-330	33 / 2.5	J · K	15 / 2.5	17	6.44	400
CFL252018SF-390	39 / 2.5	J · K	15 / 2.5	15	6.85	380
CFL252018SF-470	47 / 2.5	J · K	14 / 2.5	13	9.94	260
CFL252018SF-560	56 / 2.5	J · K	14 / 2.5	10	10.7	280
CFL252018SF-680	68 / 2.5	J · K	14 / 2.5	8	12.8	260
CFL252018SF-820	82 / 2.5	J · K	14 / 2.5	8	18.3	240
CFL252018SF-101□	100 / 1	J , K	8 / 1	7	19.6	200

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 $100M\Omega$ 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/°C (-25~+80°C).
- 7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2°C 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°C, 10 seconds(See attached recommend reflow)
- 11. Storage environment: Storage condition: Temperature Range: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ (Generally: $21^{\circ}\text{C} \sim 31^{\circ}\text{C}$) , Humidity Range: $50\% \sim 80\%$ RH (Generally: $65\% \sim 75\%$); Transportation condition: Temperature Range: $-35^{\circ}\text{C} \sim 85^{\circ}\text{C}$, Humidity Range: $50\% \sim 95\%$ 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

