

SDIA4018T TYPE

●FEATURE

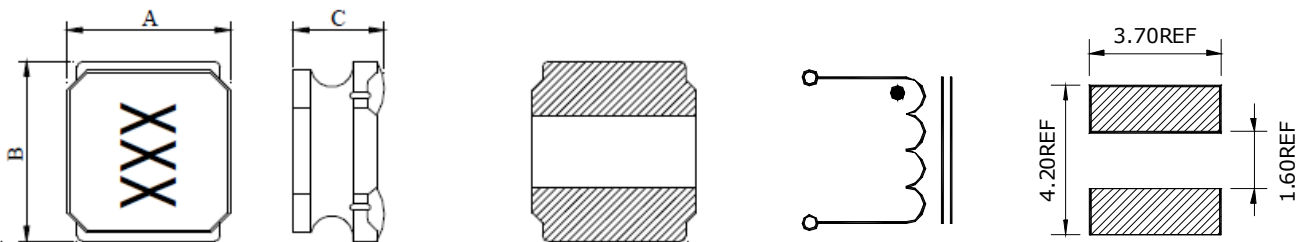
1. Low profile and small size (Height: 1.80mm Max)
2. Low DC resistance

●Applications

1. LCD panels
2. Digital camera , PDA and others

●Shape and Dimension

●Schematics and Land Patterns(mm)



A=4.00±0.20mm ; B=4.00±0.20mm ; C= 1.80mm MAX

●Specification

Part Number	L(uH)	STAMP	DCR($\Omega \pm 20\%$)	Isat(A)	Irms
SDIA4018T-1R0N	1.0±30%	1R0	0.030	4.80	3.20
SDIA4018T-2R2M	2.2±20%	2R2	0.045	3.00	2.20
SDIA4018T-3R3M	3.3±20%	3R3	0.070	2.45	2.00
SDIA4018T-4R7M	4.7±20%	4R7	0.090	1.70	1.70
SDIA4018T-6R8M	6.8±20%	6R8	0.110	1.45	1.45
SDIA4018T-100M	10±20%	100	0.180	1.30	1.20
SDIA4018T-150M	15±20%	150	0.270	0.94	0.85
SDIA4018T-220M	22±20%	220	0.360	0.80	0.72
SDIA4018T-330M	33±20%	330	0.530	0.56	0.55
SDIA4018T-470M	47±20%	470	0.650	0.57	0.44
SDIA4018T-680M	68±20%	680	1.000	0.47	0.36
SDIA4018T-101M	100±20%	101	1.750	0.40	0.30

Note1. Measurement frequency of Inductance value : at 100KHz, 0.25V.

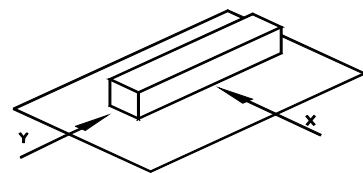
Note2. Measurement ambient temperature of L, DCR and IDC : at 25°C

Note3. Inductance Tolerance: M : ±20%, N : ±30%

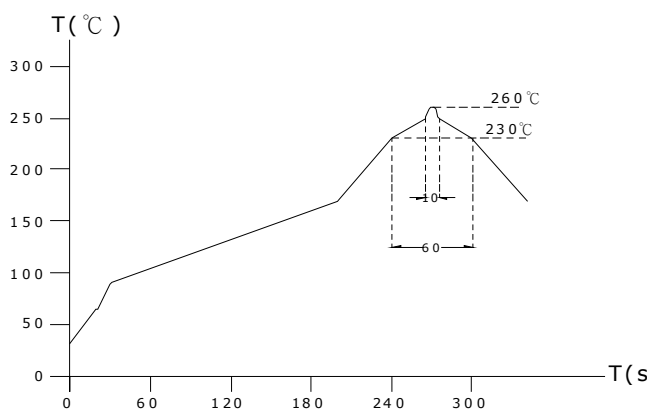
Note4. Rated Current : This indicates the value of current when the inductances is 30% lower than its initial value at D.C. superimposition.(Ta=20°C)

GENERAL CHARACTERISTICS

1. Operating temperature range: -40°C TO $+125^{\circ}\text{C}$ (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) 5. 0N 60 sec.
4. Insulating resistance: Over $100\text{M}\Omega$ 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 $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ ($-25\sim +80^{\circ}\text{C}$ 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 $90\sim 95\%$ 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 ($10\sim 55\sim 10\text{ Hz}$) 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: $50\% \sim 70\% \text{ RH}$
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

