SDIA6012 TYPE

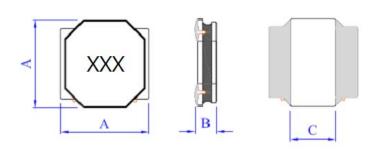
•FEATURE

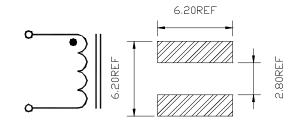
- 1. Low profile and small size (Height=1.20mm Max)
- 2. Low DC resistance

Applications

- 1. LCD panels
- 2. Digital camera, PDA and others
- Shape and Dimension

Schematics and Land Patterns(mm)





A=6.00±0.20m/m; B=1.20m/m MAX; C=2.70m/m TYP.

Specification

Part Number	L(uH)	DCR(ΩMax)	lsat(A)	Irms(A)
SDIA6012-2R2M	2.2±20%	0.120	2.60	2.10
SDIA6012-3R3M	3.3±20%	0.175	2.15	1.70
SDIA6012-4R7M	4.7±20%	0.220	1.85	1.60
SDIA6012-5R6M	5.6±20%	0.240	1.70	1.50
SDIA6012-6R8M	6.8±20%	0.280	1.60	1.20
SDIA6012-8R2M	8.2±20%	0.320	1.45	1.15
SDIA6012-100M	10±20%	0.430	1.40	1.10

Note1. Measurement frequency of Inductance value: at 100KHz

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

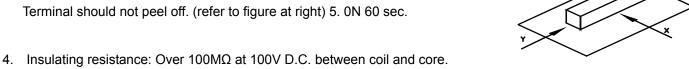
Note3. Isat : $\triangle L/L \le 20\%$ (This indicates the value of current when the inductances is 20% lower than its initial value at D.C. superimposition)

Note4. Irms:D.C. current when at $\Delta t=40^{\circ}$ C (typ.).(Ta=25 $^{\circ}$ C)

Note5.Packaging: Taping; Quantity: 1000 Pieces/reel

GENERAL CHARACTERISTICS

- Operating temperature range: -40 TO + 105^o (Includes temperature when the coil is heated)
- 2. External appearance: On visual inspection, the coil has no external defects.
- Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.



- Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
- Temperature characteristics: Inductance coefficient (0~2,000)x10-6/°C (-25~+80°C).
- 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℃, 10 seconds(See attached recommend reflow)
- 11. Storage environment: Storage condition: Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%); Transportation condition: Temperature Range: -35°C ~ 85°C , Humidity Range: 50% ~ 95% RH
- 12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
- 13. Reflow profile recommend:

Lead-free heat endurance test

Lead-free the recommended reflow condition

