SDIA8020 TYPE

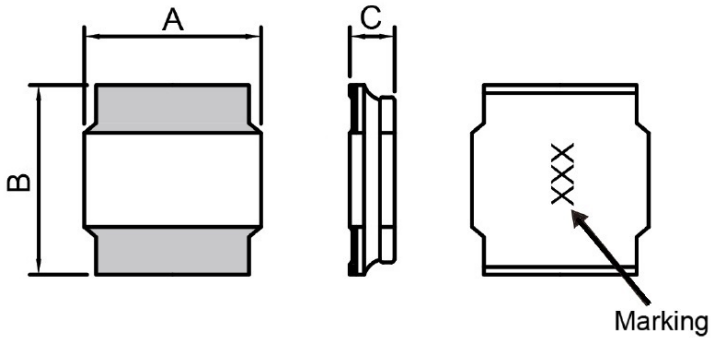
●FEATURE

1. Low profile (Height: 2.00mm Max)
2. Low DC resistance

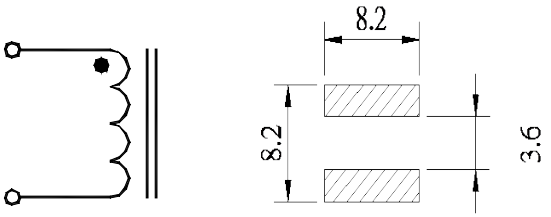
●Applications

1. Digital camera , PDA and others

●Shape and Dimension



●Schematics and Land Patterns(mm)



A=8.00±0.40m/m ; B=8.00±0.40m/m ; C=2.00m/m MAX

●Specification

Part Number	L(uH)	STAMP	DCR(ΩMax)	Isat(A)	Irms(A)
SDIA8020-1R0N	1.0±30%	1R0	0.030	5.85	4.5
SDIA8020-2R2N	2.2±30%	2R2	0.040	5.40	4.0
SDIA8020-3R3N	3.3±30%	3R3	0.045	4.95	3.6
SDIA8020-4R7N	4.7±30%	4R7	0.070	3.60	2.7
SDIA8020-6R8N	6.8±30%	6R8	0.100	3.15	2.1
SDIA8020-8R2N	8.2±30%	8R2	0.110	2.70	2.0
SDIA8020-100M	10±20%	100	0.120	2.50	2.0

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

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

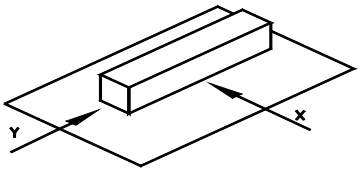
Note3. Isat : The saturation current value is the DC current value having inductance decrease down to 30% .(Ta=20℃)

Note4. Inductance tolerance: M: ±20%, N: ±30%

Note5.Packaging: Taping ; Quantity: 1500pcs/reel

GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105℃(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.Ywithstanding at below conditions.
   Terminal should not peel off. (refer to figure at right) 5N. 0N 60 sec.



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 (0~2,000)x10-6/℃(-25~+80℃).
7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2℃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℃ ~ 35℃ (Generally: 21℃ ~ 31℃) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35℃ ~ 85℃ , Humidity Range: 50% ~ 95% RH
12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.