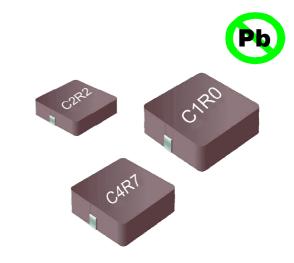
SMD Molding Power Inductor

Features

- 1. Magnetically shielded construction, low DC resistance;
- 2. The use of magnetic iron powder ensure capability for large current;
- 3. Low audible core noise;
- 4. Ideal for DC-DC converter applications in hand held personal computer and etc;
- 5. Frequency Range: up to 3.0MHz;
- 6、RoHS compliant。



Applications

- 1、Smart phone、MID;
- 2. Next-generation mobile devices with multifunction such as adding color TV and digital movie cameras;
- 3、Flat-screen TVs, blue-ray disc recorders, set top box;
- 4. Notebooks, desktop computers, servers, graphic cards;
- 5. Portable gaming devices, personal navigation systems, personal multimedia devices;
- 6. Automotive systems:
- 7、Telecomm base stations。

◆ Lead Free Part Numbering

SLO 1050 H 100 M T

(1) (2)

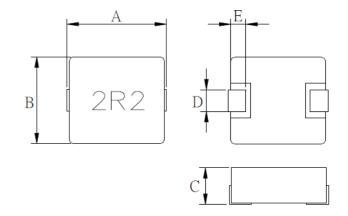
(3)

(4) (5) (6) (7)

- (1) Series Type
- (2) Dimension: AXC
- (3) Material Code
- Inductance: 2R2=2.2µH;

 $100=10\mu H$; $101=100\mu H$

- (5) Inductance Tolerance: M=±20%, Y=±30%
- (6) Company Code
- (7) Packaging: packed in embossed carrier tape



Dimensions

Series	A±0.2(mm)	B±0.2 (mm)	C (mm)	D±0.1 (mm)	E±0.1 (mm)
SLO1050H	11.15	10.0	5.0 Max	3.0	2.0



Specification

Part Number	INDUCTAN CE	Rdc (mΩ)	Test a condition	SATURATION CURRENT(Isat) DC AMPS2	HEAT RATING CURRENT(Idc) DC AMPS1		
	Lo(µ H)	Max		(Typ.)	(Typ.)		
SLO1050H Series							
SLO1050HR22MTT	0.22	0.7	100KHz/1V	65	42		
SLO1050H1R0MTT	1.0	3.0	100KHz/1V	30	24		
SLO1050H1R5MTT	1.5	3.8	100KHz/1V	25	21		
SLO1050H2R2MTT	2.2	6.0	100KHz/1V	19	15		
SLO1050H3R3MTT	3.3	10	100KHz/1V	16	13		
SLO1050H4R7MTT	4.7	14	100KHz/1V	15	11		
SLO1050H5R6MTT	5.6	17	100KHz/1V	14	9.5		
SLO1050H6R8MTT	6.8	18.5	100KHz/1V	14	9.0		
SLO1050H100MTT	10	28	100KHz/1V	10	8.0		
SLO1050H150MTT	15	42	100KHz/1V	7.5	6.5		
SLO1050H220MTT	22	50	100KHz/1V	6.0	5.5		
SLO1050H330MTT	33	86	100KHz/1V	5.2	4.8		
SLO1050H470MTT	47	127	100KHz/1V	4.5	3.7		
SLO1050H101MTT	100	290	100KHz/1V	2.8	2.1		

NOTES:

- 1. DC current (ldc) that will cause an approximate $\triangle T$ of 40°C
- 2. DC current (Isat) that will cause Lo to drop approximately 20%
- 3. All test data is referenced to 25°C ambient
- 5. The part temperature (ambient + temp rise) should not exceed 150° C under the worst operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



ltem	Specification and Requirement	Test Method		
	1. No case deformation or change in	1.Preheat: 155℃±5℃ , 60S±2S		
Solderability	apperarance	2.Tin: lead-free.		
	2. New solder coverage More than 90%	3.Temperature:245℃±5℃, flux 3.0S±0.5S.		
	1. No case deformation or change in	1. Acceleration: 100G		
Mechanical	apperarance	2. Pulse time:: 6ms		
shock	2. △L/Lo≦±10%	3. 3 times in each positive and negative direction of 3		
		mutual perpendicular directions		
	1. No case deformation or change in	1. The test samples shall be soldered to the board.		
	apperarance	Then it shall be submitted to below test conditions.		
	2. △L/Lo≦±10%	Fre. Range 10~55Hz		
Mechanical		Total Amplitude 1.5mm		
vibration		Sweeping Method 10Hz to 55Hz to 10Hz		
		Time For 2 hours on each X,Y,Z axis.		
		2. Recovery: At least 2 hours of recovery under the		
		standard condition after the test, followed by the		
		measurement within 24 ±2 hours.		
	Inductance change:	1. First -55℃ for 30 minutes, last 125℃ for 30		
	Within ± 10% Without distinct damage	minutes as 1 cycle. Go through 1000 cycles.		
Thermal Shock	in appearance	2. Max transfer time is 2 minutes.		
		3. Measured at room temperature after placing fo		
		24±2 hours		
	Inductance change:	1.Reflow 2 times,		
Humidity	Within ± 10% Without distinct damage	2.85°C,85%RH,1000 hours 3.Measured at room temperature after placing for		
Resistance	in appearance			
		24±2 hours		
Low	Inductance change:	1. Temperature: -55 ± 2°C		
temperature	Within ± 10% Without distinct damage	2. Time: 1000 hours		
storage	in appearance	3. Measured at room temperature after placing for		
2.2.490		24±2 hours		
Himb	Inductance change:	1. Temperature: +125 ± 2°C		
High	Within ± 10% Without distinct damage	2. Time: 1000 hours		
temperature	in appearance	3. Measured at room temperature after placing for		
storage		24±2 hours		



	Inductance change:	1、Run through IR reflow for 2 times;
	Within ± 10% Without distinct damage	2. Place the 100mm X 40mm board into a fixture
	in appearance	similar to the one shown in below Figure with the
	Парреаганое	component facing down
		The apparatus shall consist of mechanical means
		to apply a force which will bend the board (D) $x = 2$
		mm minimum.
		4. The duration of the applied forces shall be 60±5
Board Flex		sec. The force is to be applied only once to the oard.
		Support Solder Chip Printed circuit board before to
		Probe to exert bending force Radius 340 Printed circuit board under test Displacement
	No removal or split of the termination or	1. The test samples shall be soldered to the board
	other defects shall occur.	2. Push the product vertically from the side of the
		sample using the thrust tester.
		3、Automotive electronics: 17.7N, 60S±1s, X ,
		Ydirect.
Terminal Strength		X direct
		Y direct



◆ Recommended Soldering Technologies

(1) Re-flowing Profile

Preheat condition: 150 ~200 °C/60~180sec.

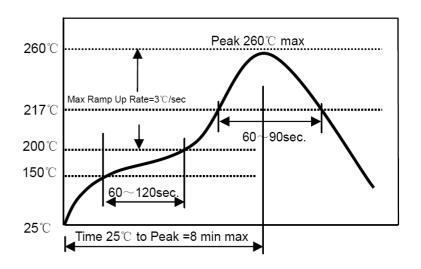
Allowed time above 217°C: 80~120sec.

Max temp: 260°C

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



(2) Iron Soldering Profile

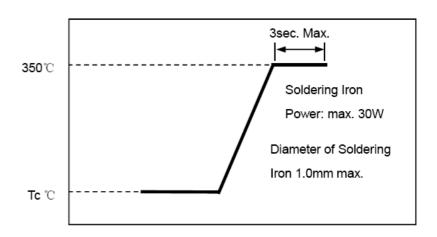
Iron soldering power: Max. 30W

Pre-heating: 150°C/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

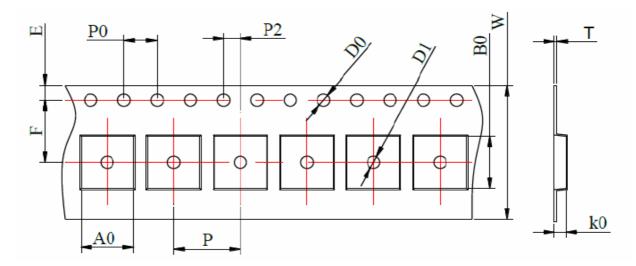
Max.1 times for iron soldering





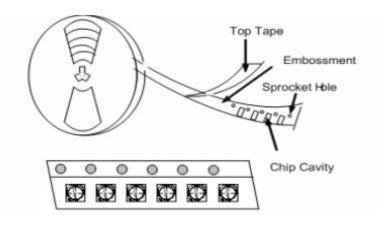
◆Packaging Information

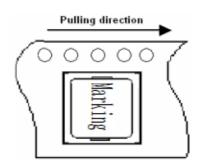
(1) Tape Packaging Dimensions (Unit: mm)



Туре					Тар	e dimer	nsions (m	nm)				
	W	Р	P0	P2	D0	D1	Т	A0	В0	K0	Е	F
SLO1050	24 ±0.3	16 ±0.1	4 ±0.1	2 ±0.05	1.5 ±0.1	1.5 ±0.1	0.4 ±0.05	10.4 ±0.1	11.6 ±0.1	5.4 ±0.1	1.75 ±0.1	11.5 ±0.1

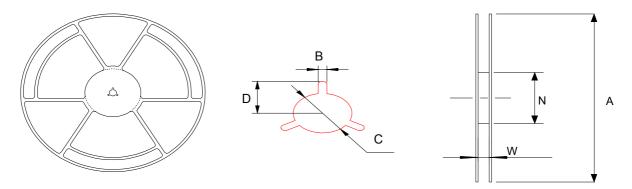
Taping Drawings (UNIT:mm)







(2) Reel Dimensions (Unit: mm)



А	W	N	В	С	D
330+2.0	24±0.5	97±0.5	2.2+0.5	13.0±0.2	10.75±0.25

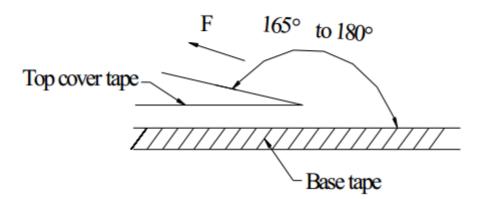
(3) Packaging Quantity(PCS)

Tyra	Standard Quantity					
Туре	Reel	Inner box	Carton box			
SLO1050	500 pcs / reel	2Reel / box (1000 pcs)	4 Middle boxes, (4000 pcs)			

(4) Peel force of top cover tape

The peel speed shall be about 300mm/minute

The peel force of top cover tape shall be between 0.1 to 1.3 N



单击下面可查看定价,库存,交付和生命周期等信息

>>Sunltech(韩国顺磁)