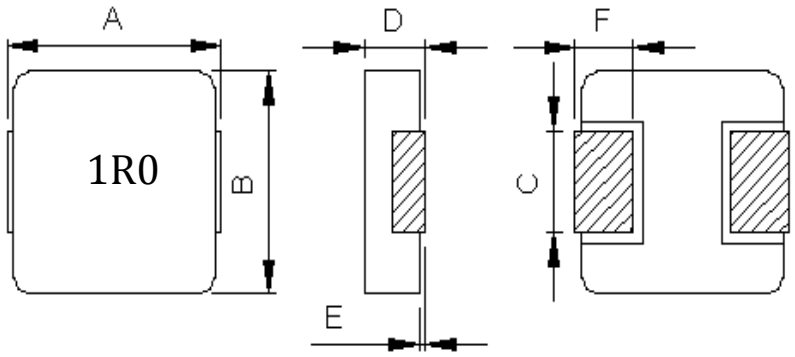
1. Features

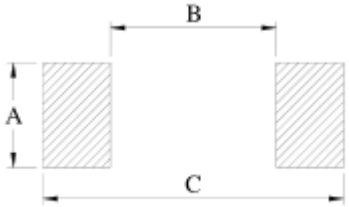
1. Magnetic metal powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.

2. Dimensions



编号	A	B	C	D	E	F
尺寸（mm）	14.40Max.	12.80±0.30	2.70±0.50	3.50Max.	0～0.15	2.50±0.50

3. Recommend Land Pattern Dimensions



A	4.50
B	3.40
C	14.10

Unit : mm

4.Specifications

Part Number	L0 Inductance (μH) @ (0A)	DCR (mΩ)		Heat Rating Current DC Amps. Idc (A)	Saturation Current DC Amps. Isat (A)
		Typ.	Max		
SLO1235H1R0MTT	1.0	2.9	3.5	20	40

NOTES:

1. Idc : DC current (A) that will cause an approximate △T of 40℃,
2. 2. Isat : DC current (A) that will cause Lo to drop approximately 35%
3. All test data is referenced to 25℃ ambient
4. Operating Temperature Range -55℃ to +125℃
5. The part temperature (ambient + temp rise) should not exceed 125℃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.

6. TEST FREQUENCY:100KHz,1.0V
7. TESTING INSTRUMENT L :Agilent4284A,WK4235,CH3302/G LCR METER

   CH1320,CH1320S BIAS CURRENT SOURCE

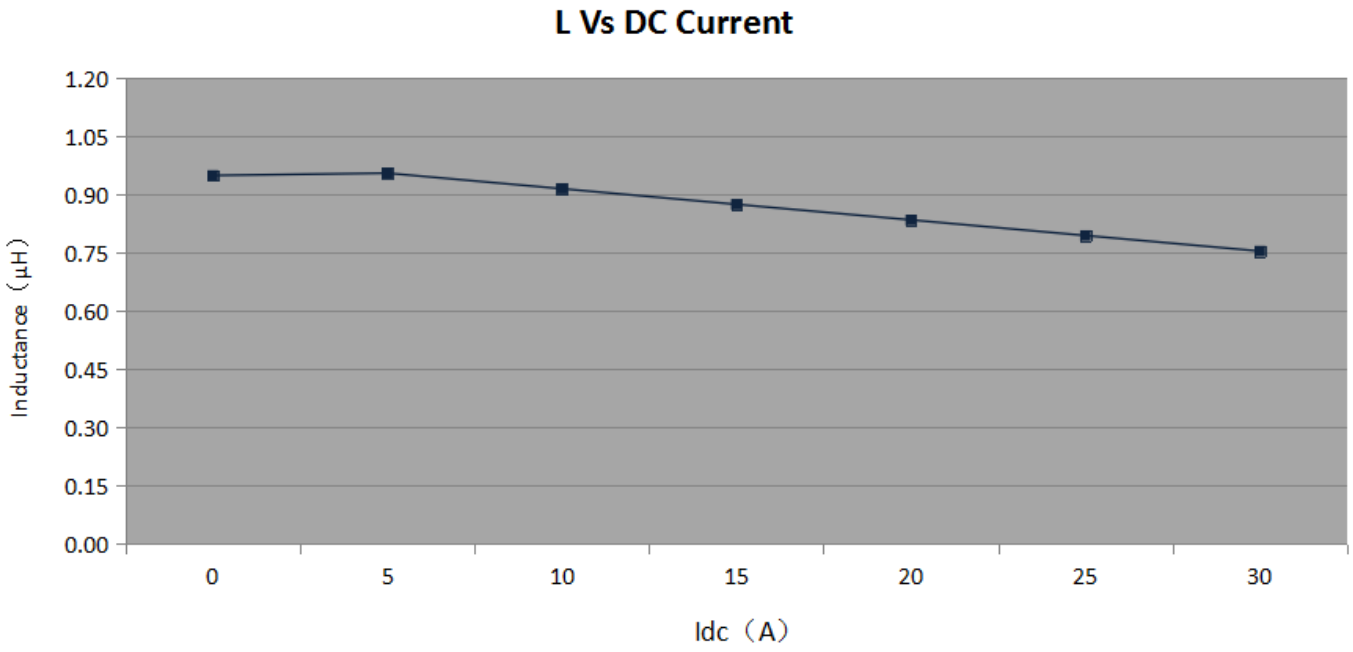
   R_{dc} :CH502BC MICRO OHMMETER

5. TEST REPORT

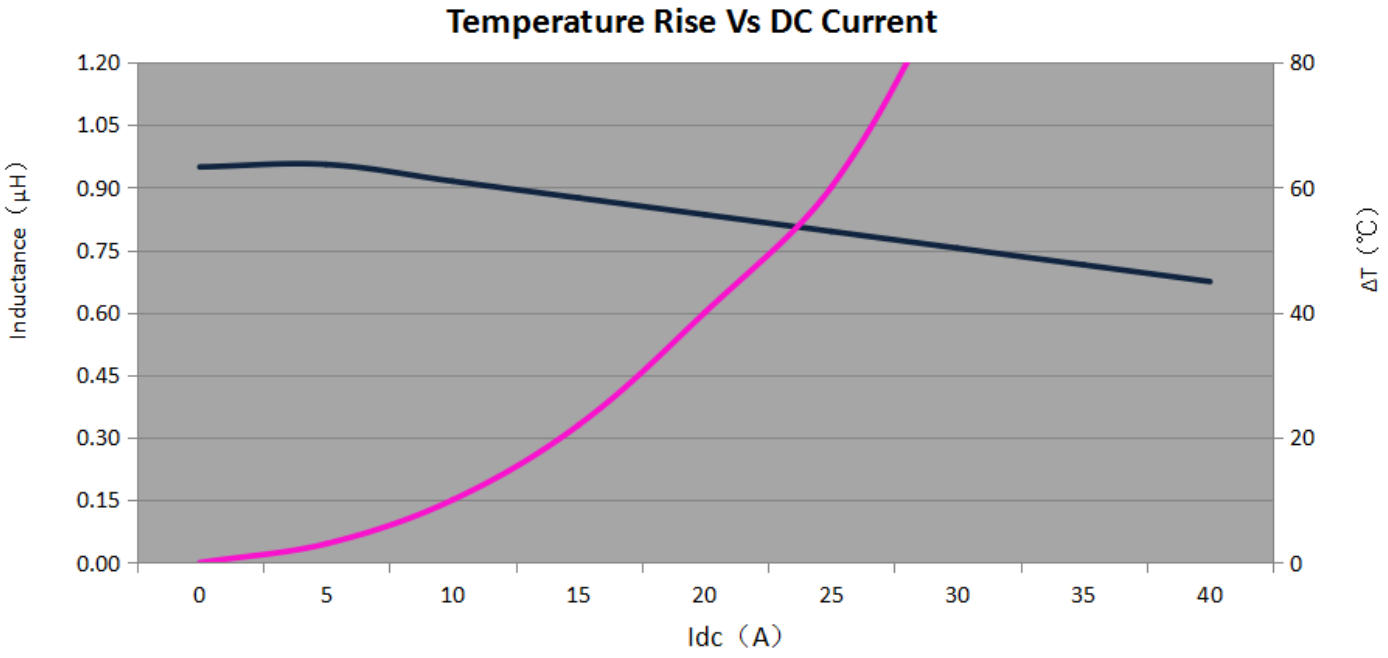
TEST REPORT				
Electrical Characteristic				
Item				
	L0A	DCR	I rms	I sat
Specification	1.0uH	3.5mΩ	20Amps	40Amps
Tolerance	±20%	Max	△T≦40℃	L≧65%
1	0. 949	2. 85	37. 6℃	71. 02%
2	0. 957	2. 89		
3	0. 994	2. 85		
4	0. 967	2. 87		
5	0. 955	2. 87		
6	0. 971	2. 87		
7	0. 984	2. 91		
8	0. 974	2. 89		
9	0. 969	2. 91		
10	0. 948	2. 88		
$\overline{X}$	0.9668	2.879		

External Dimensions						
Item						
	A	B	C	D	**F**	
Specification	14.4	12.8	2.7	3.5	2.5	
Tolerance	Max (mm)	± 0.3(mm)	± 0.5(mm)	Max (mm)	± 0.5(mm)	
1	14.12	12.74	2.74	3.35	2.51	
2	14.11	12.74	2.71	3.36	2.51	
3	14.07	12.75	2.69	3.42	2.54	
4	14.09	12.74	2.72	3.37	2.59	
5	14.07	12.75	2.73	3.38	2.61	
6	14.12	12.75	2.68	3.35	2.59	
7	14.07	12.75	2.77	3.33	2.61	
8	14.11	12.74	2.73	3.36	2.54	
9	14.09	12.74	2.69	3.41	2.61	
10	14.12	12.75	2.69	3.44	2.58	
$\overline{X}$	14.097	12.745	2.715	3.377	2.569	

6. INDUCTANCE VS DC CURRENT



7.TEMPERATURE RISE VS DC CURRENT



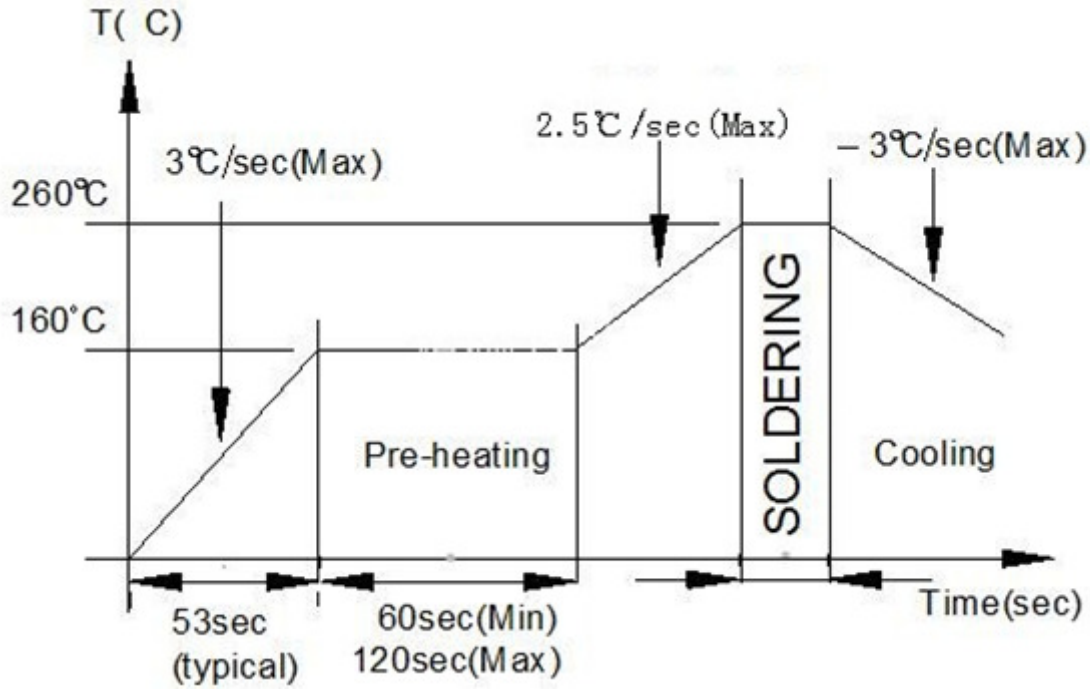
8. Reliability and Test Condition

Item	Performance	Test Condition
Operating temperature	-40~+125℃	
Storage temperature	-10~+40℃,50~60%RH (Product without taping)	
Electrical Performance Test		
Inductance	Refer to standard electrical characteristics list.	HP4284A,CH11025,CH3302,CH1320,CH1320S
DCR		CH16502,Agilent33420A Micro-Ohm Meter.
Saturation Current (Isat)	△L30% typical.	Saturation DC Current (Isat) will cause L0 to drop △L(%)(keep quickly).
Heat Rated Current (Irms)	Approximately △T≦40℃	Heat Rated Current (Irms) will cause the coil temperature rise △T(℃) without core loss.
Heat Rated Current (Irms)		
Reliability Test		
High Temperature Exposure Test	Electric specifications should be satisfied	Temperature:125±2℃ . Duration:1000±12hrs .
Low Temperature Life Test		Temperature:-40±2℃
Low Temperature Life Test		
Biased Humidity Test		Humidity:85±3%RH. Temperature:85±2℃ . Duration:1000±12hrs.
Thermal shock test		Condition for 1 cycle Step1:-40+0 / -2℃ 15±1 min. Step2:Room temperature within ≦0.2
Vibration test		Frequency: 10-2000-10Hz for 20 min. Amplitude: Parts mounted within 2" from any secure point. Directions and times: X, Y, Z directions for 20 min.
Reflow test		Pre-heat：150±5℃ Duration：5 minutes Temperature：260±5℃，20~40
Solder test	Terminals should be covered by over 95% solder on visual inspection	After dip into flux，dip into solder 235±5℃，4±1seconds Flux ，solder for lead free (ANSI /J-STD-002C Method

9. SOLDERING CONDITION RECOMMENDED

9.1 器件焊接方式：**回流焊**

9.1.1 回流焊焊接方式及推荐炉温曲线

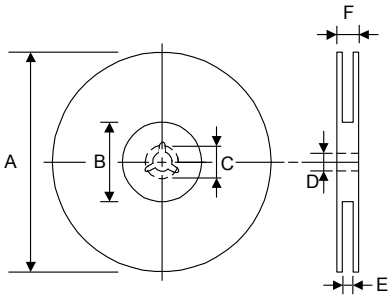


9.1.2 高温耐热性描述（在 265℃的熔融铅料中，停留时间不少于 10 秒，3 次最少，无质量问题。）

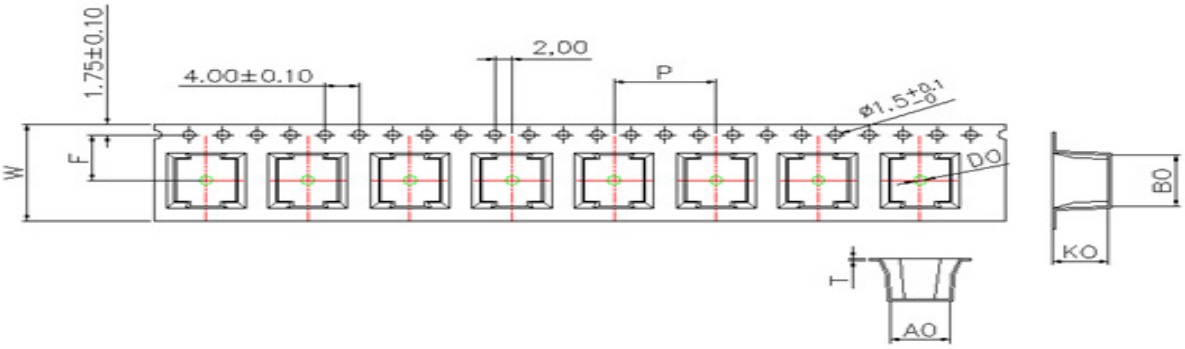
9.1.3 返修温度和时间（温度：400℃；时间：不少于 5 秒。）

9.1.4 焊接次数（元器件能承受的焊接次数不少于 3 次。)

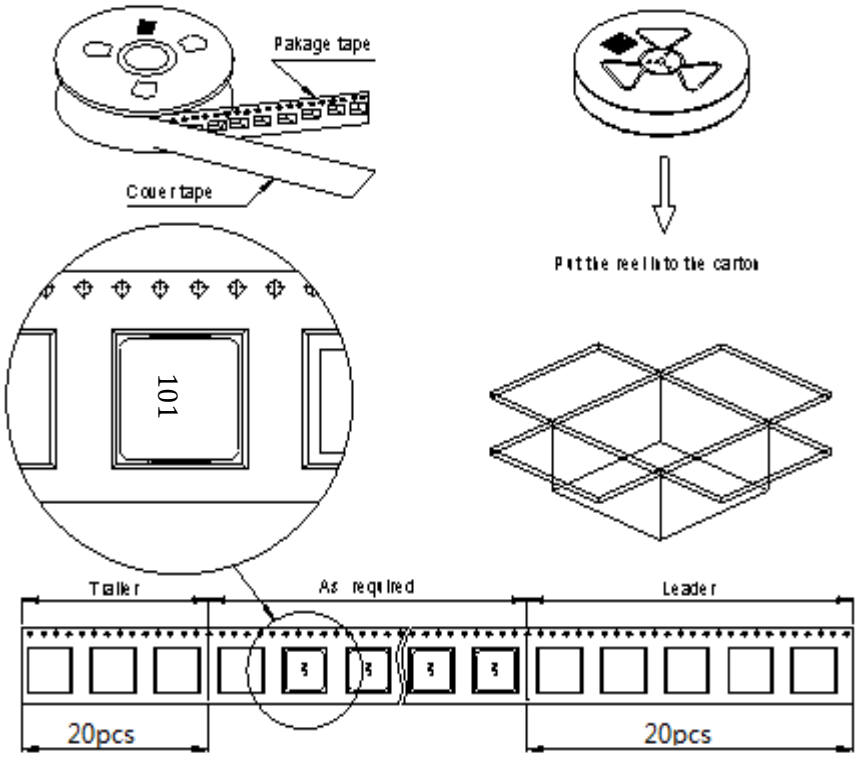
10. Packaging Information



TYPE	A	B	C	D	E	F
24mm	330	100	21.0±0.8	$13^{+0.5}_{-0.2}$	16±0.3	26.4



Q'TY (PCS)	A0	B0	KO	W	P	T
800	14.5±0.1	12.9±0.1	3.6±0.1	24.0±0.3	16.0±0.1	0.40±0.05



①一卷包装:800Pcs;
② 小箱装两卷:一共1600Pcs;
③ 大箱装三小箱: 一共4800Pcs.

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SLO1040H680MTT SMW4532S201XTT SLO0624H100MTT SLP7045S220MTT SLS6D38S3R3NTT SLW4012S100MST SMW3216B102ATE STC11T+ SCA0806H19NJTT SLM20162R2MIT SLO1235HR47MTT SMABA008482CE1A40 SLS6D28S680MTT SMW5045S601NTT SCA1111H47NJTT SLP1265S220MTT STCM11+ SLF1005-221KTT SLO1770H1R5MTT SLO252010F4R7MTT SLD10D50S151MTT SLH1204S150MTT SLO201610T2R2MTT SLP1045S101MTT SLQ1608C101MTT SLW4020P1R0MST S617DB1023 SLO160808T2R2MTT SLO252010T4R7MTT SLS4D28S100MTT