



## SPECIFICATION FOR APPROVAL

CUSTOMER'S APPROVAL CHOP			
Approval's condition:			
Approved date:			
•			

KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME:			
CUSTOMER'S MODEL NO. :			
CUSTOMER'S PART NO. :			
DESCRIPTION:	SMD Co	upled Inductor	
Semitel'S MODEL NO. :	SCDRI	-127PF Series	
VERSION:		A	
DATE:	2024/9/13		
Attachments:	Prepared By	Checked By	Approved By
□ Product specification			
☐ Sample Qty. :	Hebe Deng 2024/9/13	Ben Lin 2024/9/13	Eric Chang 2024/9/13
□ Test Data			

Semitel International Ltd.,	TEL: 886-2-86922121	FAX: 886-2-26483379
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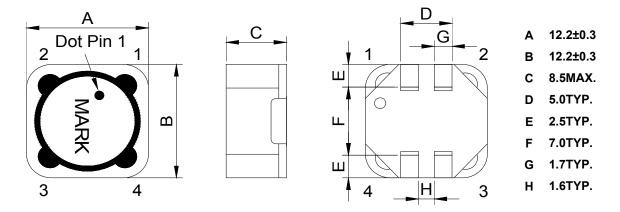
# Revision Record

Version	Revision Date	Revision For Items	Reason For Revision
Α	2024/9/13	New Revision	-
			<u> </u>

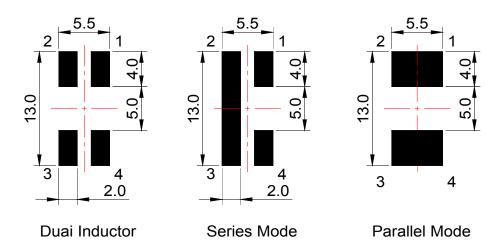
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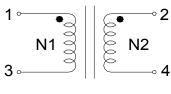
## 1.Physical Dimensions (Unit:mm)



#### 2.Recommended Pad Layout (Unit:mm)



#### 3. Connection



" • "Start of winding

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#### **4.Electrical Characteristics**

(1). I DC1: Base on temp.rise &  $\Delta L/L0A$  30% Typ

(2). I DC2: Temp.rise 40°CTyp

(4). Storage temperature: 15°C up to 25°C, 65% RH max

Part Number	Inductance 1-3=2-4 (uH) @100kHz,0.1V	DCR 1-3=2-4 ( mΩ) TYP.	I DC(1) 1-3=2-4 (A) MAX.	I DC(2) 1-3=2-4 (A) MAX.	Marking
SCDRI-127PF-1R5M-05A	1.5±30%	16	15.5	8.1	1R5
SCDRI-127PF-2R5M-05A	2.5±30%	18	14.0	7.3	2R5
SCDRI-127PF-3R3M-05A	3.3±20%	21	11.0	6.5	3R3
SCDRI-127PF-4R7M-05A	4.7±20%	30	9.0	3.2	4R7
SCDRI-127PF-6R8M-05A	6.8±20%	35	7.0	2.8	6R8
SCDRI-127PF-100M-05A	10±20%	44	6.0	2.4	100
SCDRI-127PF-220M-05A	22±20%	80	4.7	2.1	220
SCDRI-127PF-330M-05A	33±20%	130	3.5	1.5	330
SCDRI-127PF-470M-05A	47±20%	150	2.8	1.2	470
SCDRI-127PF-680M-05A	68±20%	215	2.3	1.0	680
SCDRI-127PF-101M-05A	100±20%	300	1.7	0.9	101
SCDRI-127PF-151M-05A	150±20%	400	1.3	0.8	151
SCDRI-127PF-221M-05A	220±20%	650	1.0	0.7	221
SCDRI-127PF-471M-05A	470±20%	1200	0.8	0.6	471

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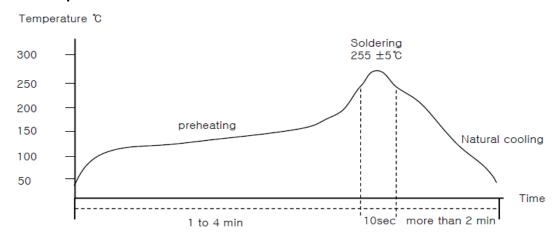
Semitel International Ltd.,



#### 5. Reliability Testing

Operating Temperature	-40 to +125 $^{\circ}{\mathbb{C}}$ ( Contain Heating coil )		
Appearance Inspection	No external defects by visual inspection		
Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec.  Terminal should not peel off. ( Refer to figure at right )		
Heat endurance of reflow soldering	Refer to figure		
Insulating resistance	Over $10M\Omega$ at $50V$ D.C . between wire and core		
Dielectric Strength	Apply at 0.5KV 1mA for 2S between wire and core		
Temperature characteristics	Inductance coefficient ( 0~2,000 ) × 10 / $^{\circ}$ C( - 40~ + 125 $^{\circ}$ C )		
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 $^{\circ}\!$		
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal			

#### 6.IR Reflow profile



Temperature and humidity. After that, no mechanical and electrical defect should be found.

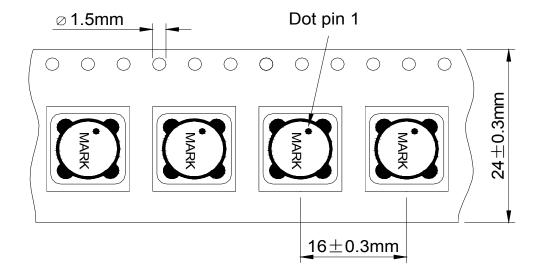
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## 7.Packing Request

- (1). Every roll of the carrier tape can contain 500pcs products.
- (2). Every small packing box contains 2 rolls of carrier tape. Total quantity: 1000pcs.
- (3). Every carton box contains 3 small packing boxes. Total quantity: 3000pcs.





Plastic reel: 13' (diameter 330mm)

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