

# 深圳市索瑞达电子有限公司

# 承 认 书 SPECIFICATION FOR APPROVAL

客户名称: Customer Name:	立创	
客户料号: Customer P/N:		
产 品 名 称: Product Name:	功率电感	
索瑞达料号: Sorede P/N:	SDRH.105R.LF470NT00	

制造厂	 商
Manufa	acturer
拟 制	唐杨英
Draft.	7 177
Charles	<b>产</b> 一种型 存妃团
日期 Date	2022-08-12



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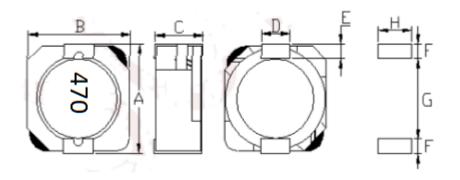
### 修改履历表

#### **Modify Resume**

修改日期			修改明细	修改后版本号
Date modified			Modify Details	Version No.
2022-08-12	文件新制订	File formulation		A

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#### 1、外形尺寸 Dimension:



单位Unit: mm

A	10.2±0.3
В	10.0±0.3
С	4.80±0.3
D	3.0Ref
Е	1.2Ref
F	1.6Ref
G	7.3Ref
Н	3.2Ref

2、产品品名构成 Product Spec. Model

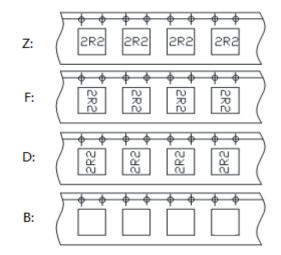
<u>SDRH</u>. <u>105R</u>. <u>L</u> <u>F</u> <u>470</u> <u>N</u> <u>T</u> <u>00</u> a b c d e f g h

- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- c: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- d: 印字方向 Lettering direction ▶
- e: 电感值Inductance Value

(1R0:1.0uH; 100: 10uH; 101:100uH)

- f: 电感公差Inductance Tolerance (K:10%; M:20%; N:30%)
- g: 包装Package(T:磁带/卷轴Tape/Reel、B: 散装Bulk)
- h: 编号Numbering (标准standard)

#### ► Lettering direction



#### 3、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DB-9.6-7.5-4.65-4.8P SP-10-4.25-8.2HT OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	ADHESIVE	S-9001-6G OR EQUIVALENT	NA	NA
4	CLIP	SN-105R-5-C	NA	NA
5	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

<sup>\*</sup>NA:NOT APPLICABLE.

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#### 4、电性能参数表 Electrical Characteristics List

4、电性舵奓釵衣上		ensues List			
规格型号 Part NO.	电感量 Tolerance (uH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)
SDRH.105R.LF470NT00	47	100/0.25	0.130	2.00	2.00
				1	

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40  $^{\circ}$  to +105 $^{\circ}$  (Including Self-heating)

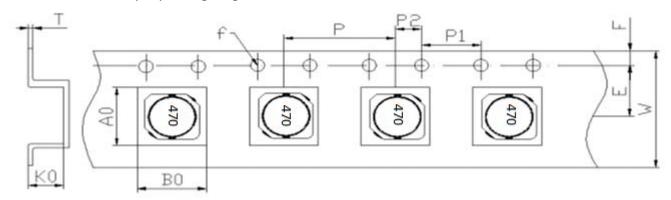
※储存温度Storage termperature rang: -40  $^{\circ}$  to +125 $^{\circ}$ 

Isat电流:指使电感量比初始值下降35%Max ( The rated DC current is that which cause at 35%Max inductance reduction from the initial value )。

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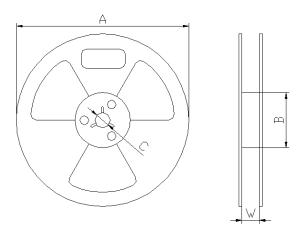
## 5、产品包装 Packaging

## 1) 载带包装示意图 Tape packing diagram



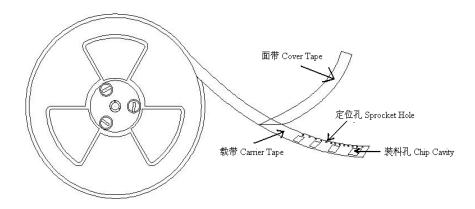
Series	A0	B0	W	Е	F	∮f
	11±0.1	11±0.1	24.0±0.3	11.0±0.1	1.75±0.1	1.5±0.1
SDRH.105R.LF	Р	P1	P2	K0	Т	
	16.0±0.1	4.0±0.1	2.0±0.1	5.2±0.1	0.40±0.1	

## 2)卷盘包装示意图 Tape packing diagram



Α	330±0.5
В	100±0.5
С	13.5±0.5
W	24.5±0.5

## 3) 卷盘包装示意图 Tape packing diagram

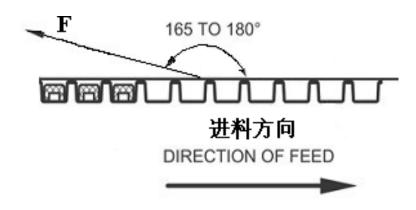


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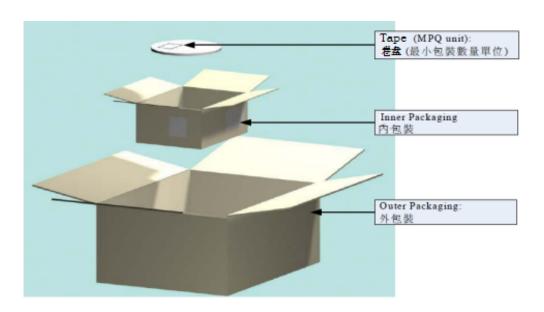
### 4)剥离强度要求Peeling required

①F 力大小: 20~100g;

②面带剥离角度: 165°~180°。



## 5) 包装数量 Packing quantity



项目 (Project)	数量(PCS)	尺寸规格(Size:mm)
盘(Reel)	800	13"
内盒 (Inner box)	1600	340mm*340mm*65mm
外箱 (Out box)	4800	360mm*360mm*225mm

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## 6. RELIABILITY TEST METHOD MECHANICAL TEST ITEM **SPECIFICATION** TEST DETAILS Substrate bendir △L/Lo≦±5% The sample shall be soldered onto the printed circuit board in figure 1 and a load applied unitil the figure in the arrow There shall be direction is made approximately 3mm.(keep time 30 seconds) no mechanical PCB dimension shall the page 7/9 damage or elec-F(Pressurization) trical damege. 45±2 45±2 PRESSURE ROD figure-1 R340 Vibration △L/Lo≦±5% The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm There shall be and a frequency of from 10 to 55Hz/1 minute repeated should no mechanical be applied to the 3 directions (X,Y,Z) for 2 hours each. damage. (A total of 6 hours) New solder Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated Solderability More than 90% over the whole of the sample before hard, the sample shall then be preheated for about 2 minutes in a temperature of $130\sim150^{\circ}$ C and after it has been immersed to a depth 0.5mm below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±2°C. More than 90% of the electrode sections shall be couered with new solder smoothly when the sample is taken out of the solder bath.

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MECHANIC	AL							
TEST ITEM	SPECIFICATION							
Resistance to	There shall be	e shall be Temperature profile of reflow soldering						
Soldering heat	no damage or							
(reflow soldering)	problems.	Soldering (Peak temperature 260±3°C 10 sec  150  150  150  2 min  150  2 min  100  2 min  100  2 min  100  2 min. or more  The specimen shall be passed through the reflow oven with the						
		condition shown in the above profile for 1 time.  The specimen shall be stored at standard atmospheric conditions						
		for 1 hour, after which the measurement shall be made.						

## ELECTRICAL

TEST ITEM	SPECIFICATION	TEST DETAILS
Insulation resistance	There shall be no other damage or problems.	DC 100V voltage shall be applied across this sample of top surface and the terminal. The insulation resistance shall be more than 1 × 10 $^8$ $\Omega$ .
Dielectric withstand voltage	There shall be no other damage or problems.	AC 100V voltage shall be applied for 1 minute acrosset the top surface and the terminal of this sample
Temperature characteristics	△L/L20°C ≦±10% 0~2000 ppm/°C	The test shall be performed after the sample has stabilized in an ambient temperature of - 40 to + $105^{\circ}$ C, and the value calculated based on the value applicable in a normal temperature and narmal humidity shall be $\triangle$ L/L $20^{\circ}$ C $\leq$ ± 10%.

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<b>ENVIROME</b>	NT CHARAC	TERIST	ICS						
TEST ITEM				SPECIFIC	CATION				
High temperature	∆L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with							
storage		a temperature of 105±2℃ and a normal humidity.							
	There shall be	Upon completion of the measurement shall be made after the							
	no mechanical	sample has been left in a normal temperature and normal							
	damage.	humidity	for 1 ho	ur.					
Low temperature		The samp	ole shall	l be left for 500	hours in an atmos	ohere with			
storage		a temperature of -40±3℃.							
	There shall be	Upon completion of the test, the measurement shall be made							
	no mechanical	after the sample has been left in a normal temperature and							
	damage.	normal hu	normal humidity for 1 hour.						
Change of	△L/Lo≦±5%	The samp	ole shall	be subject to s	5 continuos cycles	, such as shown			
temperature		in the tab	in the table 2 below and then it shall be subjected to standard						
	There shall be	stmospheric conditions for 1 hour, after which measurement							
	no other dama-	shall be made.							
	ge of problems								
	ge of problems				table 2				
	ge of problems			Temperature		Duration			
	ge of problems		1	Temperature — 40±3°C		Duration 10 min.			
	ge of problems		1		e				
	ge of problems		1 2	−40±3°C	e o.1)				
	ge of problems			-40±3℃ (Themostat No	o.1)	10 min.			
	ge of problems			-40±3℃ (Themostat No Standard	o.1)	10 min.			
	ge of problems		2	-40±3℃ (Themostat No Standard atmospheric	5 (c) N	10 min. sec. or less lo.1→No.2			
	ge of problems		2	- 40±3°C (Themostat No Standard atmospheric 105±2°C	5 (D.2)	10 min. sec. or less lo.1→No.2			
	ge of problems		2 3	- 40±3℃ (Themostat No Standard atmospheric 105±2℃ (Themostat No	5 : 0.2)	10 min. sec. or less lo.1→No.2 30 min.			
	ge of problems		2 3	-40±3℃ (Themostat Notation Standard atmospheric 105±2℃ (Themostat Notation Standard	5 : 0.2)	10 min.  sec. or less lo.1→No.2  30 min.  sec. or less			
Moisuture storage	ge of problems  △L/Lo≤±5%	The samp	3 4	- 40±3°C (Themostat Note Standard atmospheric (Themostat Note Standard atmospheric standard atmospheric standard atmospheric standard sta	5 : 0.2)	10 min.  sec. or less lo.1→No.2  30 min.  sec. or less lo.2→No.1			
Moisuture storage			2 3 4	- 40±3°C (Themostat Note Standard atmospheric (Themostat Note Standard atmospheric standard atmospheric standard atmospheric standard sta	b.1)  5:  0.2)  5:  hours in a tempera	10 min.  sec. or less lo.1→No.2  30 min.  sec. or less lo.2→No.1			
Moisuture storage		40±2°C a	2 3 4 Dile shall	- 40±3°C (Themostat Notation Standard atmospheric 105±2°C (Themostat Notation Standard atmospheric 105 to 100 to	b.1)  5:  0.2)  5:  hours in a tempera	10 min.  sec. or less lo.1→No.2  30 min.  sec. or less lo.2→No.1			
Moisuture storage	△L/Lo≦±5%	40±2°C a	2 3 4 ble shall	- 40±3°C (Themostat Notation Standard atmospheric 105±2°C (Themostat Notation Standard atmospheric 105 be left for 500 midity(RH) of 90 of the test, the	2.1) 5.2) 5.2) 5.4 hours in a tempera 0~95%.	10 min.  sec. or less lo.1→No.2  30 min.  sec. or less lo.2→No.1			

The sample shall be reflow soldered onto the printed circuit board in every test.

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#### 7、注意事项 Note

①本承认书保证我司产品作为一个单体时的质量情况。当我司产品被安装到贵司产品上时,请保证贵司的产品已根据贵司的规范进行了有效评估和确认。

This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.

②如果贵司对我司产品的使用已超过了本承认书所界定的产品功能,那么对于由此引发的失效, 我司将不予保证。

We cannot warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

- ③为了保持终端电极的焊接性,并使包装材料保持良好状态,必须控制储存区的温度和湿度。
  To maintain the solderabilty of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
  - ※建议的条件: -10~+40℃, 30~70%RH。

Recommended conditions:  $-10 \sim +40 \,^{\circ}\text{C}$ ,  $30 \sim 70 \,^{\circ}\text{RH}$ .

- ※储存超过六个月的,应在实际使用前进行焊接检验。 In case of storage over 6 months, soldrability shall be checked before actual usage.
- ※即使在理想的储存条件下,产品的可焊性也随着时间的推移而降低。因此,产品应从交货时算起, 建议8个月之内使用完。

Even under ideal storage conditions, the weldability of the product decreases over time. therefore, the product should be From the time of delivery, it is recommended that it be used within 8 months.

④本承认书在客户收到30天之内,必须签章返回,逾期视为默认。

The Specification Approval should be sent back to the supplier with customer's chop on it within 30 days after receiving it, or we will take it as approved by customer's automatically.

⑤如有特殊规格要求,请事前联络我司技术部人员。

In case of special specifications please contact our technical department prior staff.