

# 深圳市索瑞达电子有限公司

## 承 认 书 SPECIFICATION FOR APPROVAL

客 户 名 称 <b>:</b> Customer Name :	GSLC1712	
客户料号: Customer P/N:	C2942322	
产 品 名 称 <b>:</b> Product Name:	功率电感	
索瑞达料号: Sorede P/N:	SDRH.1204.LF470MT00	





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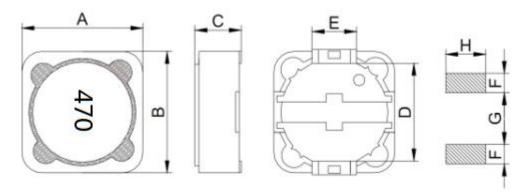
## 修改履历表

#### **Modify Resume**

	Wiodity Resume	
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2022-03-01	文件新制订 File formulation	A
	<u> </u>	

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#### 1、外形尺寸 Dimension:



A	12.0±0.3
В	12.0±0.3
С	4.5 Max.
D	7.6±0.2
Е	5.0 Ref.
F	2.8 Ref.
G	7.0 Ref

5.4 Ref

单位Unit: mm

2、产品品名构成 Product Spec. Model

# <u>SDRH</u>. <u>1204</u>. <u>L</u> <u>F</u> <u>470</u> <u>M</u> <u>T</u> <u>00</u> a b c d e f g h

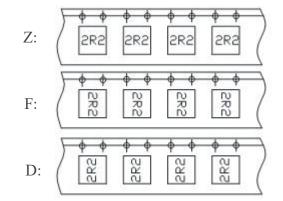
- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- c: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- d: 印字方向 Lettering direction ▶
- e: 电感值Inductance Value

(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

Η



#### 3、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	DR 9.9*4.0 B: 5.2 F:2.0 RI 12.1*3.8*10.60 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180°C
3	ADHESIVE	6020H-6-5 OR EQUIVALENT	NA	NA
4	BASE	C-1200 MS-5 P1	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、电性能参数表 Elec	uricai Charactei	istics 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)
SDRH.1204.LF470MT00	47	100/0.25	0.150	1.90

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40 ℃ to +105℃ (Including Self-heating)

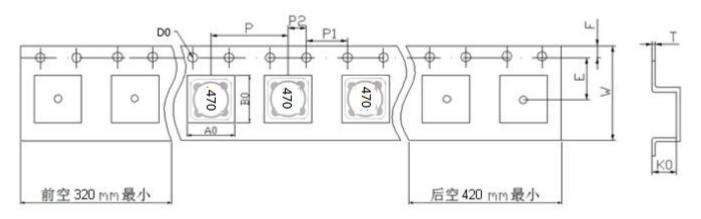
※储存温度Storage termperature rang: -40  $^{\circ}$  to +125 $^{\circ}$ 

Isat电流:指使电感量比初始值下降25%Max ( The rated DC current is that which cause at 25%Max inductance reduction from the initial value )。

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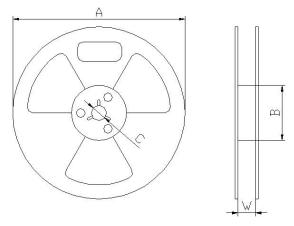
## 5、产品包装 Packaging

#### 1) 载带包装示意图 Tape packing diagram



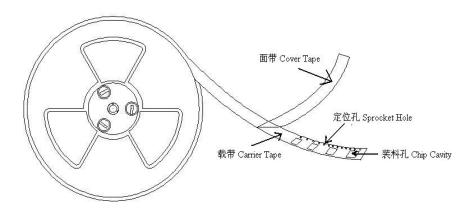
ITEM	W	A0	В0	K0	P	Е	F	f	P1	P2	T
DIM	24.00	12.6	12.6	5.2	16.0	11.5	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

#### 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

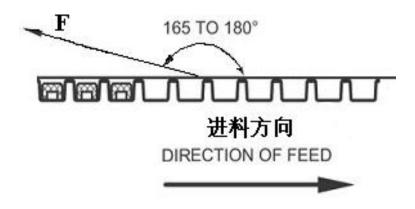


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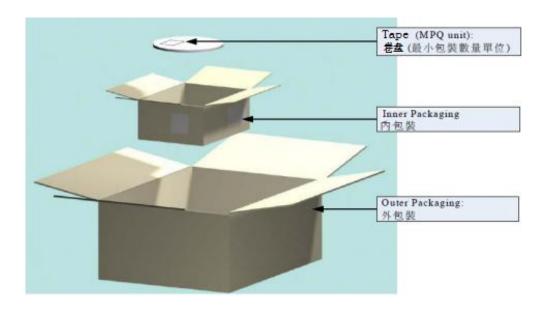
## 4) 剥离强度要求Peeling required

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)	500	13"
内盒 (Inner box)	1000	340mm*340mm*65mm
外箱 (Out box)	3000	360mm*360mm*225mm

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6. RELIABILI	TYTEST METHOD				1 0			
MECHANICA								
TEST ITEM	SPECIFICATION	TEST DETAILS						
Substrate bend	ir △ 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 approximate	ely 3mm.(keep tin	ne 30 seconds)			
	no mechanical	PCB din	nension shall the pag	e 7/9				
	damage or elec-		F(P	ressurization)				
	trical damege.			П				
				<u> </u>				
			R5 1 45±2	2 45±2				
					<del> - </del>   20			
					10			
			PRESSURE I figure-1	ROD	D240			
			•		R340			
Vibration		The sam	nple shall be soldered	onto the printed o	circuit board			
			· en a vibration having a	·				
	There shall be	and a frequency of from 10 to 55Hz/1 minute repeated should be applied to the 3 directions (X,Y,Z) for 2 hours each.						
	no mechanical							
damage. (A total of 6 hours)								
Solderability	New solder	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated						
·	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						
$130{\sim}150{^\circ\!\mathrm{C}}$ and after it has been immersed to a depth 0.5mm								
		below for 3±0.2 seconds fully in molten solder M705 with						
		a tempe	rature of 245±2℃.					
		More than 90% of the electrode sections shall be couered						
with new solder smoothly when the sample is taken out of								
		the sold	er bath.					

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File Number		Version Number	page					
MECHANIC	AL							
TEST ITEM	SPECIFICATION							
Resistance to	There shall be	Temperature profile of reflow soldering						
Soldering heat	no damage or							
(reflow soldering)	problems.	© 300 — (Peak temporary 250 — Pre-heating 150 — 150 ~ 180°C	soldering erature 260 B°C 10 sec  30 sec Min (230.0°C)  Slow cooling (Stored at room temperature)					
		The specimen shall be passed throucondition shown in the above profile The specimen shall be stored at stafor 1 hour, after which the measurer	e for 1 time. andard atmospheric conditions					
ELECTRICA								
TEST ITEM	SPECIFICATION	TEST D	ETAILS					

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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ENVIROME	NT CHARACT	TERIST	ICS						
TEST ITEM				ICATION					
High temperature	△L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with							
storage		a temper	a temperature of 105±2℃ and a normal humidity.						
	There shall be	Upon cor	Upon completion of the measurement shall be made after the						
	no mechanical	sample h	sample has been left in a normal temperature and normal						
	damage.	humidity	humidity for 1 hour.						
Low temperature	△L/Lo≦±5%	The sam	ole shall be left for 500	O hours in an atmo	osphere with				
storage		a temper	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 h	umidity for 1 hour.						
Change of	△L/Lo≦±5%	The sam	ole shall be subject to	5 continuos cycl	es, such as shown				
temperature		in the table 2 below and then it shall be subjected to standard							
	There shall be	stmosph	eric conditions for 1 h	our, after which m	easurement				
	There shall be no other dama-	stmosphoshall be i		our, after which m	easurement				
				our, after which m	easurement				
	no other dama-			our, after which m	easurement				
	no other dama-			table 2	easurement  Duration				
	no other dama-		made.	table 2					
	no other dama-		made. Temperatu	table 2	Duration				
	no other dama-		made.  Temperatu 1 — 40±3℃	table 2 ure	Duration				
	no other dama-		Temperatu 1 — 40±3°0 (Themostat N	table 2 ure No.1)	Duration 10 min.				
	no other dama-		Temperatu 1 — 40±3°0 (Themostat N	table 2  ure  No.1)	Duration 10 min. 5 sec. or less				
	no other dama-		Temperatu 1 — 40±3°0 (Themostat No. 2 Standard atmosphere)	table 2  ure  No.1)	Duration 10 min. 5 sec. or less No.1→No.2				
	no other dama-		Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C	table 2  Ire  No.1)  If ric  No.2)	Duration 10 min. 5 sec. or less No.1→No.2				
	no other dama-		Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C (Themostat N	table 2 lire No.1) diric No.2)	Duration  10 min.  5 sec. or less  No.1→No.2  30 min.				
Moisuture storage	no other dama- ge of problems	shall be r	Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C (Themostat N  4 Standard	table 2  Ire  No.1)  If ic  No.2)  If ic	Duration  10 min.  5 sec. or less  No.1→No.2  30 min.  5 sec. or less  No.2→No.1				
Moisuture storage	no other dama- ge of problems	shall be r	Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C (Themostat N  4 Standard atmospher	table 2  Ire  No.1)  If ic  No.2)  If ic  D hours in a temper	Duration  10 min.  5 sec. or less  No.1→No.2  30 min.  5 sec. or less  No.2→No.1				
Moisuture storage	no other dama- ge of problems	The sam	Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C (Themostat N  4 Standard atmospher  ole shall be left for 500	table 2  Ire  No.1)  If  ric  No.2)  If  ric  D hours in a temper	Duration  10 min.  5 sec. or less  No.1→No.2  30 min.  5 sec. or less  No.2→No.1				
Moisuture storage	no other dama- ge of problems	The same 40±2°C at Upon core	Temperatu  1 — 40±3°C (Themostat N  2 Standard atmospher  3 105±2°C (Themostat N  4 Standard atmospher  ole shall be left for 500 and a humidity(RH) of	table 2  Ire  No.1)  d ric  No.2)  d ric  D hours in a temper  90~95%.  The measurement services and the services are a services and the services are a serv	Duration  10 min.  5 sec. or less  No.1→No.2  30 min.  5 sec. or less  No.2→No.1  erature of  shall be made				

Test conditions:

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  $^{\circ}$ C, 30 $\sim$ 70%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.