

# 深圳市索瑞达电子有限公司

## 承 认 书 SPECIFICATION FOR APPROVAL

答 尸 名 称: Customer Name :	立创	
客户料号: Customer P/N:		
产 品 名 称 <b>:</b> Product Name:	功率电感	
索 瑞 达 料 号: Sorede P/N:	SRYH.0530.YF6R8MT00	

制造厂商		
Manuf	acturer	
拟 制	<b>唐杨英</b>	
Draft A	緣达电子有個	
审核	四 4 甲藻紀日	
Check	程专用管妃团	
日期		
Date	2022-08-13	

客户承认印章				
Appro	val Signet			
日期 Date				

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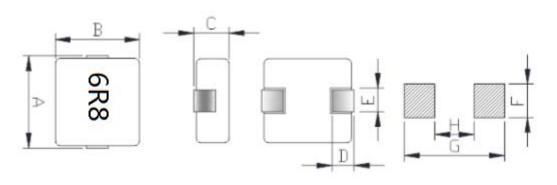
## 修改履历表

## **Modify Resume**

修改日期		修	改明细	修改后版本号
Date modified		Mod	dify Details	Version No.
2022-08-13	文件新制订	File formulation		A

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#### 1、外形尺寸 Dimension:



#### 单位Unit: mm

A	5.6±0.3
В	5.3 Max
С	3.0 Max
D	1.2±0.3
Е	2.0±0.3
F	2.5 Ref
G	7.0 Ref
Н	3.0Ref

## 2、产品品名构成 Product Spec. Model

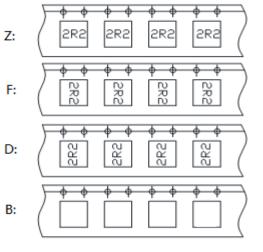
# <u>SRYH</u>. <u>0530</u>. <u>Y</u> <u>F</u> <u>6R8</u> <u>M</u> <u>T</u> <u>00</u> a b cd e f g h

- 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	UL FILE NO.	TEMP. CLASS
1	Iron Powder	ALLOY OR EQUIVALENT	NA	NA
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT/SY07	E258243	180℃
3	Base	Fog Tin OR EQUIVALENT	NA	NA
4	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

TO THE DATE LICE	tricar Characteri	Sties Eist			
规格型号 Part NO.	电感量 Tolerance(µH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR Max (mΩ)	饱和电流 Isat (A)TYP.	温升电流 Irms (A)TYP.
SRYH.0530.YF6R8MT00	6.8	100/0.25	80	3.50	3.0

<sup>※</sup>公差Tolerance: N:±30%、M:±20%、K:±10%.

额定电流:指使电感量比初始值下降30%TYP.或电感器表面温度上升  $40^{\circ}$ CTYP.的电流值,以较小者为准(参考周围环境温度  $25^{\circ}$ C)。 The rated DC current is that which cause at 30% TYP.inductance reduction from the initial value or inductor surface temperature to rise by  $40^{\circ}$ CTYP., whichever is smaller ( Reference ambient temperature  $25^{\circ}$ C)。

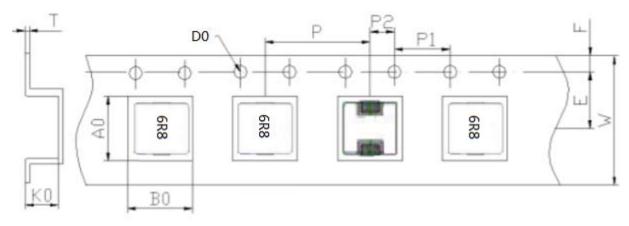
<sup>※</sup>工作温度Operating temperature rang: -40  $^{\circ}$  to +125 $^{\circ}$  (Including Self-heating)

<sup>※</sup>储存温度Storage termperature rang: -40 ℃ to +125 ℃

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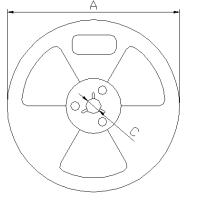
## 6、产品包装 Packaging

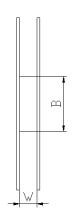
## 1) 载带包装示意图 Tape packing diagram



ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	Т
DIM	12.00	6.10	5.40	3.20	8.00	5.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

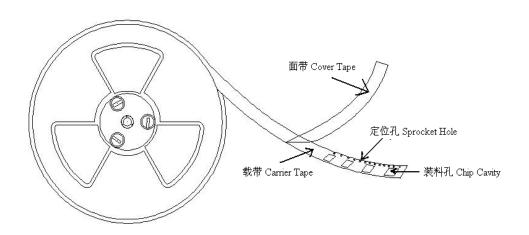
## 2)卷盘尺寸 REEL DIMENSION(mm)





Α	330±0.5
В	100±0.5
С	13.5±0.5
W	12.5±0.5

## 3) 卷盘包装示意图 Tape packing diagram

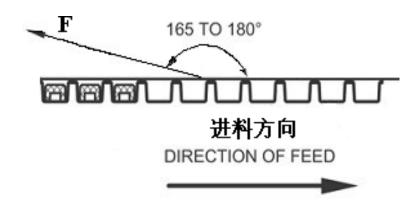


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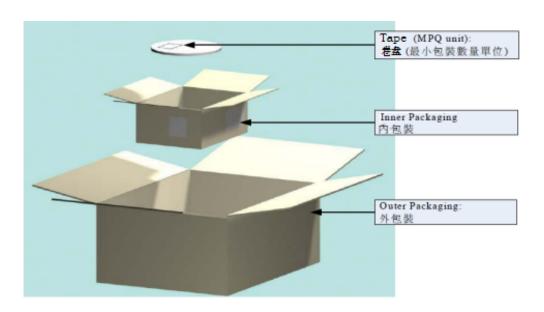
## 4)剥离强度要求Peeling required

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)	2000	13"
内盒 (Inner box)	8000	340mm*340mm*65mm
外箱 (Out box)	24000	360mm*360mm*225mm

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## 7. 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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MECHANICAL	1							
TEST ITEM		SPECIF	CATION					
Resistance to	There shall be	ere shall be Temperature profile of reflow soldering						
Soldering heat	no damage or							
(reflow soldering)	problems.	Sodering 100 Soder	Pre-heating  2 min  passed through the	(Sto temporal sec.) 2 min.				
		The specimen shall be s	stored at standard	d atmospheric con	ditions			
ELECTRICAL		The specimen shall be s	etored at standard e measurement s	d atmospheric con shall be made.	ditions			
TEST ITEM	SPECIFICATION	The specimen shall be s for 1 hour, after which th	e measurement s	d atmospheric con shall be made. ILS				
TEST ITEM Insulation	SPECIFICATION  There shall be no other damage or problems.	The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b	e measurement s  TEST DETA e applied across	d atmospheric con shall be made. ILS				
TEST ITEM	There shall be no other	The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b surface and the terminal	tored at standard e measurement s  TEST DETA e applied across	d atmospheric conshall be made.  ILS  this sample of top				
TEST ITEM Insulation	There shall be no other	The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b	tored at standard e measurement s  TEST DETA e applied across	d atmospheric conshall be made.  ILS  this sample of top				
TEST ITEM Insulation resistance	There shall be no other damage or problems.	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance	TEST DETA e applied across . e shall be more to	If atmospheric conshall be made. ILS this sample of top the sample of	)			
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.  There shall be	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance AC 100V voltage shall be	TEST DETA e applied across e shall be more to	If atmospheric conshall be made. ILS this sample of top the sample of	)			
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be no other no other	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance	TEST DETA e applied across e shall be more to	If atmospheric conshall be made. ILS this sample of top the sample of	)			
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.  There shall be no other no other damage or	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance AC 100V voltage shall be	TEST DETA e applied across e shall be more to	If atmospheric conshall be made. ILS this sample of top the sample of	)			
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be no other no other	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance AC 100V voltage shall be	TEST DETA e applied across e shall be more to	If atmospheric conshall be made. ILS this sample of top the sample of	)			
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be no other no other damage or	The specimen shall be set for 1 hour, after which the DC 100V voltage shall be surface and the terminal The insulation resistance AC 100V voltage shall be	TEST DETA e applied across e shall be more to e applied for 1 mi of this sample	d atmospheric conshall be made.  ILS  this sample of tophan 1 × 10 <sup>8</sup> Ω.	top			
TEST ITEM Insulation resistance Dielectric withstand voltage	There shall be no other damage or problems.  There shall be no other damage or problems.	The specimen shall be so for 1 hour, after which the DC 100V voltage shall be surface and the terminal. The insulation resistance AC 100V voltage shall be surface and the terminal.	TEST DETA e applied across e shall be more to e applied for 1 mi of this sample	d atmospheric conshall be made.  ILS  this sample of tophan 1 × 10 <sup>8</sup> Ω.  inute acrosset the open ple has stabilized	top			
TEST ITEM Insulation resistance Dielectric withstand voltage Temperature	There shall be no other damage or problems.  There shall be no other damage or problems.  △L/L20°C ≤±10%	The specimen shall be so for 1 hour, after which the DC 100V voltage shall be surface and the terminal. The insulation resistance AC 100V voltage shall be surface and the terminal. The test shall be performed to the test shall be performed.	TEST DETA e applied across e shall be more to e applied for 1 mi of this sample	d atmospheric conshall be made.  ILS  this sample of tophan 1 × 10 <sup>8</sup> Ω.  Inute acrosset the open ple has stabilized to a constant the	top			

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TEST ITEM	SPECIFICATION							
High temperature	△L/Lo≦±5%	The sample	The sample shall be left for 500hours in an atmospere with					
storage		a temperat	a temperature of 125±2℃ and a normal humidity.					
	There shall be	Upon comp	Upon completion of the measurement shall be made after the					
	no mechanical	sample has	sample has been left in a normal temperature and normal					
	damage.	humidity fo	humidity for 1 hour.					
Low temperature	△L/Lo≦±5%	The sample	e sha	all be left for 500 hours in a	n atmosphere with			
storage		a temperat	ure c	of -40±3℃.				
	There shall be	Upon comp	Upon completion of the test, the measurement shall be made					
	no mechanical	after the sa	after the sample has been left in a normal temperature and					
	damage.	normal hun	normal humidity for 1 hour.					
Change of	△L/Lo≦±5%	The sample	e sha	all be subject to 5 continuo	s cycles, such as shown			
temperature		in the table	in the table 2 below and then it shall be subjected to standard					
	There shall be	stmospheri	stmospheric conditions for 1 hour, after which measurement					
	no other dama-	shall be ma	shall be made.					
	ge of problems							
				table	e 2			
				Temperature	Duration			
			1	−40 <b>±3</b> °C	10 min.			
				(Themostat No.1)				
			2	(Themostat No.1) Standard	5 sec. or less			
			2	· · ·	5 sec. or less No.1→No.2			
			2	Standard				
				Standard atmospheric	No.1→No.2			
				Standard atmospheric 125±2°ℂ	No.1→No.2			
			3	Standard atmospheric 125±2°C (Themostat No.2)	No.1→No.2 30 min.			
Moisuture storage	∴L/Lo≤±5%	The sample	3	Standard atmospheric  125±2°C  (Themostat No.2)  Standard atmospheric	No.1→No.2 30 min. 5 sec. or less No.2→No.1			
Moisuture storage	∴L/Lo≦±5%		3 4	Standard atmospheric  125±2°C (Themostat No.2) Standard atmospheric  all be left for 500 hours in a	No.1→No.2 30 min. 5 sec. or less No.2→No.1			
Moisuture storage	△L/Lo≦±5% There shall be	40±2°C and	3 4 e sha	Standard atmospheric  125±2°C (Themostat No.2) Standard atmospheric  all be left for 500 hours in a umidity(RH) of 90~95%.	No.1→No.2  30 min.  5 sec. or less No.2→No.1  temperature of			
Moisuture storage		40±2°C and	3 4 e shad a h	Standard atmospheric  125±2°C (Themostat No.2) Standard atmospheric  all be left for 500 hours in a	No.1→No.2  30 min.  5 sec. or less No.2→No.1  temperature of  ment shall be made			

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

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#### 8、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.