

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:	SRTC.1010.YZ4R7MT00	

制造厂商			
Manufa	acturer		
拟制			
Draft索瑞达	电子有偏		
車被 Check ^{工程 も}	用章符记团		
日期	2023-05-31		
Date			



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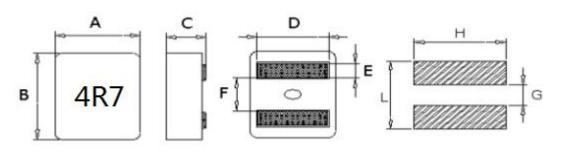
修改履历表

Modify Resume

修改日期			修改明细	修改后版本号
Date modified			Modify Details	Version No.
2023-05-31	文件新制订	File formulation		A

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1、外形尺寸 Dimension:



单位Unit: mm

Α	11.9±0.3
В	11.0±0.3
С	9.7±0.3
D	9.3±0.5
Е	2.4±0.3
F	4.4±0.5
L	10.5 Ref
Н	11.0 Ref
G	3.7 Ref

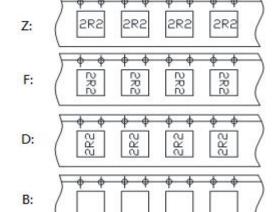
2、产品品名构成 Product Spec. Model

<u>SRTC</u>. <u>1010</u>. <u>Y</u> <u>Z</u> <u>4R7</u> <u>M</u> <u>T</u> <u>00</u> a b c d e f g h

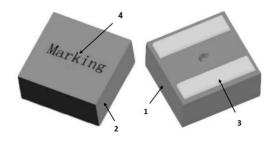
- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- c: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- d: 印字方向 Lettering direction ▶
- e: 电感值Inductance Value

(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)



3、结构Structure



4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	ALLOY POWDER OR EQUIVALENT/ (SW44)	NA	NA
2	WIRE	POLYESTER WIRE OR EQUIVALENT OR EQUIVALENT	NA	NA
3	Clip	100% PB FREE SOLDER OR EQUIVALENT	NA	NA
4	INK	HALOGEN-FREE KETONE OR EQUIVALENT	NA	NA

^{*}NA:NOT APPLICABLE.

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5、电性能参数表 Electrical Characteristics List

规格型号 Part NO.	电感量 Tolerance (µH)	测试频率 Test Freq. (kHz/v)	直流电阻 DCR (mΩ)Max	饱和电流 Isat(A) Typ	温升电流 Irms (A)Typ
SRTC.1010.YZ4R7MT00	4.7	100/0.1	5.70	25.4	24.0

※公差Tolerance: N:±30%、M:±20%、K:±10%.

※工作温度Operating temperature rang: -40 ℃ to +125℃ (Including Self-heating)

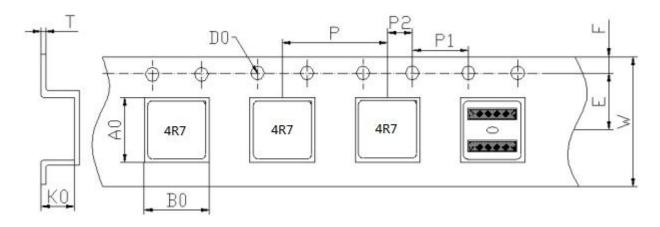
※储存温度Storage termperature rang: -40 ℃ to +125℃

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℃TYP 的电流值(参考周围环境温度 25℃)。 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℃TYP, whichever is smaller (Reference ambient temperature 25℃)。

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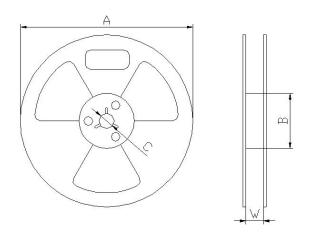
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



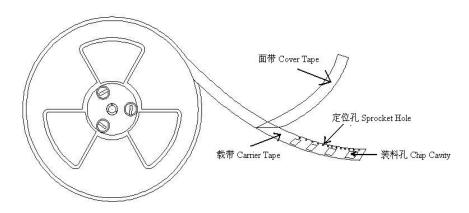
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	24.00	12.40	11.50	10.30	16.00	11.5	1.75	1.50	4.00	2.00	0.35
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



Α	330±2.0
В	97±0.5
С	13.2±0.2
W	24.8±0.2

3) 卷盘包装示意图 Tape packing diagram

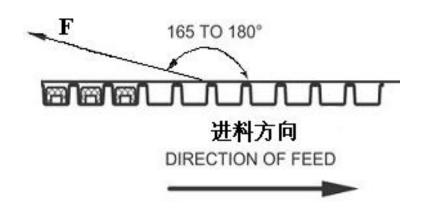


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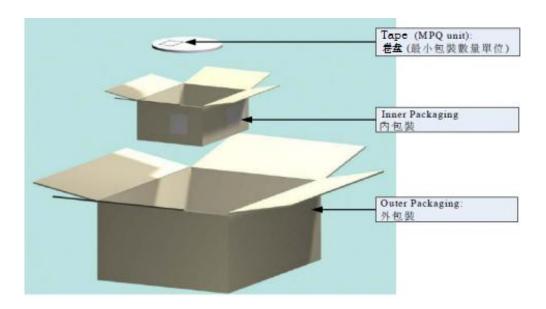
4)剥离强度要求Peeling required

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)	300	13"
内盒 (Inner box)	600	340mm*340mm*65mm
外箱 (Out box)	1800	360mm*360mm*235mm

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7. RELIABIL	TY TEST METHO	D							
MECHANIC									
TESTITEM	SPECIFICATION	N TEST DETAILS							
Substrate bend	lir △ L/Lo≦±5%	The sam	The sample shall be soldered onto the printed circuit board						
		in figure	in figure 1 and a load applied unitil the figure in the arrow						
	There shall be	direction	direction is made approximately 3mm.(keep time 30 seconds)						
	no mechanical	PCB din	PCB dimension shall the page 7/9						
	damage or elec-		F(Pressurization)						
	trical damege.	П							
			Ferr	<u> </u>					
			R5 45±2	45±2					
					10/20				
			PRESSURE ROD						
			figure-1		R340				
Vibration		onto the printed o	circuit board						
		and who	and when a vibration having an amplitude of 1.52mm						
	There shall be	and a fr	and a frequency of from 10 to 55Hz/1 minute repeated should						
	no mechanical	be appl	be applied to the 3 directions (X,Y,Z) for 2 hours each.						
	damage.	(A total	(A total of 6 hours)						
Solderability 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℃.						
			More than 90% of the electrode sections shall be couered						
		with nev	with new solder smoothly when the sample is taken out of						
		the sold	er bath.	•					

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MECHANICAL									
TESTITEM	SPECIFICATION								
Resistance to	There shall be	Temperature profile of reflow soldering							
Soldering heat	no damage or								
(reflow soldering)	problems.	The specimen shall be a condition shown in the a for 1 hour, after which the	Pre-heating 2 min passed through the above profile for 1 is stored at standard	e reflow oven with time.	the				
ELECTRICAL									
ELECTRICAL TEST ITEM	SPECIFICATION		TEST DETAI	LS					
TESTITEM	There shall be no other	DC 100V voltage shall b	2000/00/00 1000/00/00/00 1000/00/00/00/00/00/00/00/00/00/00/00/00	and the second					
	BETTERN THE DAY OF BRIDGE STREET, STRE	DC 100V voltage shall b	e applied across	and the second					
TEST ITEM Insulation	There shall be no other		e applied across	this sample of top					
TEST ITEM Insulation resistance	There shall be no other	surface and the termina	e applied across	this sample of top nan 1 × 10 ⁸ Ω.	top				
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.	surface and the termina The insulation resistanc	e applied across in the shall be more the shall be more the applied for 1 minutes.	this sample of top nan 1 × 10 ⁸ Ω.	top				
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across in the shall be more the shall be more the applied for 1 minutes.	this sample of top nan 1 × 10 ⁸ Ω.	top				
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be no other or problems.	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across in the shall be more the shall be more the applied for 1 minutes.	this sample of top nan 1 × 10 ⁸ Ω.	top				
TEST ITEM Insulation	There shall be no other damage or problems. There shall be no other damage or	surface and the termina The insulation resistanc AC 100V voltage shall b	e applied across in the shall be more the shall be more the applied for 1 minus I of this sample	this sample of top nan 1 × 10 ⁸ Ω.					
TEST ITEM Insulation resistance Dielectric withstand voltage	There shall be no other damage or problems. There shall be no other damage or problems.	surface and the termina The insulation resistanc AC 100V voltage shall be surface and the termina	ne applied across in the sample after the sample applied for 1 minutes and the sample applied after the sample applied across in the sample applied applied after the sample applied across in the sample across in the sampl	this sample of top nan 1 × 10 ⁸ Ω. The nute acrosset the ple has stabilized					
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%	surface and the termina The insulation resistanc AC 100V voltage shall be surface and the termina The test shall be perfore	ne applied across to the shall be more the sample of - 40 to + 125°C	this sample of top nan 1 × 10 ⁸ Ω. The nute acrosset the ple has stabilized the value					

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TEST ITEM		ACTERISTICS SPECIFICATION							
High temperature	∆L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with							
storage		a temperature of 125±2°C 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 hour.						
Low temperature		The sam	The sample shall be left for 500 hours in an atmosphere with						
storage		a temperature of -40±3°C.							
Ü	There shall be		Upon completion of the test, the measurement shall be made						
	no mechanical	1	·	e has been left in a normal					
	damage.		normal humidity for 1 hour.						
Change of	△L/Lo≦±5%	The sam	The sample shall be subject to 5 continuos cycles, such as shown						
temperature		in the tal	in the table 2 below and then it shall be subjected to standard						
	There shall be	stmosph	eric co	onditions for 1 hour, after w	hich measurement				
	no other dama-	shall be	shall be made.						
	ge of problems								
			table 2						
		Temperature Duration							
			1	-40±3℃	10 min.				
				(Themostat No.1)					
			2	Standard	5 sec. or less				
			-	Otaridaid	J Sec. Of less				
				atmospheric	No.1→No.2				
			3						
				atmospheric	No.1→No.2				
				atmospheric 125±2℃	No.1→No.2				
			3	atmospheric 125±2℃ (Themostat No.2)	No.1→No.2 30 min.				
Moisuture storage	∧I/I o≤+5%	The sam	3	atmospheric 125±2℃ (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 ple sha	atmospheric 125±2℃ (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		40±2°C a	3 4 ple sha	atmospheric 125±2℃ (Themostat No.2) Standard atmospheric all be left for 500 hours in a numidity (RH) of 90~95%.	No.1→No.2 30 min. 5 sec. or less No.2→No.1				
Moisuture storage	△L/Lo≦±5% There shall be no mechanical	40±2°C a	3 4 ple shand a hand	atmospheric 125±2℃ (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				

Test conditions:

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

※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.

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