

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:	SNR.5040.TYD150MT00	

制造厂	制造厂商		
Manufa	acturer		
拟制	唐杨英		
Draft	端达电子在160		
审核	和 土 田 笹妃团		
Check	程专用管见图		
日期	2022 04 27		
Date	2022-04-27		



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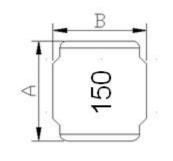
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Modify Resume

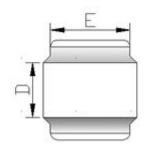
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修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2022-04-27	文件新制订 File formulation	A
2022 01 27	ZII 49119191 The formatation	

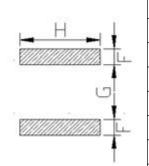
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1、外形尺寸 Dimension:









单	分1	Unit:	mm
-	<u> </u>		TITII

A	5.00±0.2
В	5.00±0.2
С	4.0 Max
D	2.2±0.3
Е	4.0 Ref
F	1.6 Ref
G	2.0 Ref
Н	4.7 Ref

2、产品品名构成 Product Spec. Model

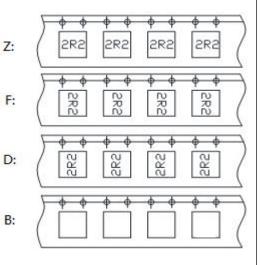
<u>SNR.5040</u>. <u>TYD 150 MT 00</u> a b cde f ghi

- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- C: 形状Shape (T:12边形12-Sided、B:8边形8-Sided、S:4边形4-Sided)
- d: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- e: 印字方向 Lettering direction ▶
- f: 电感值Inductance Value

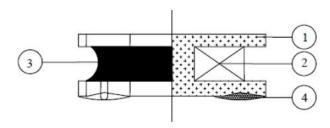
(1R0:1.0uH; 100: 10uH; 101:100uH)

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

Lettering direction



3、结构Structure



4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	N401H SDR-5.0-3.8-2.35-2.3S-P3 OR EQUIVALENT	NA	NA
2	WIRE	G1 P180 OR EQUIVALENT	E258243	180℃
3	ADHESIVE	E-500AH(胶水)+ FSC4(合金粉) OR EQUIVALENT	NA	NA
4	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	NA	NA

^{*}NA:NOT APPLICABLE.

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5、电性能参数表 Electrical Characteristics List

5、电性能参数表 Ele	ectrical Cha	aracteristics	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 Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)	线径WIRE (φ/mm)	圈数TS (Ref)
SNR.5040.TYD150MT00	15	100/1.0	0.112	2.00	2.00	0.25	22.5

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

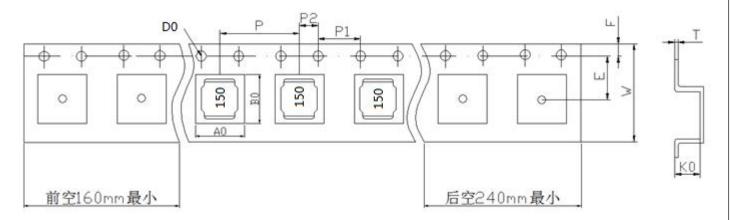
※储存温度Storage termperature rang: -40 ℃ to +125℃

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

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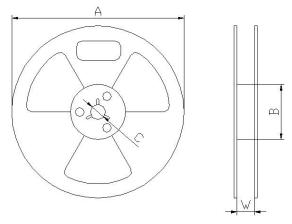
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



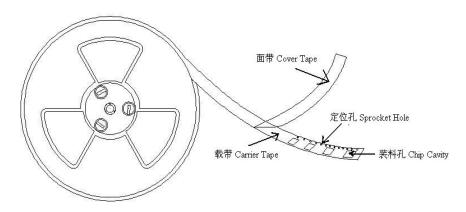
ITEM	W	A0	В0	K0	P	Е	F	D0	P0	P2	Т
DIM	12.00	5.30	5.30	4.20	8.00	5.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



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

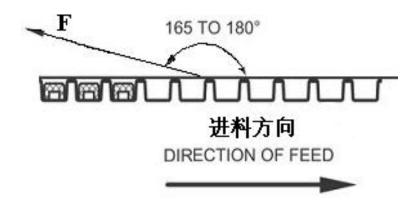


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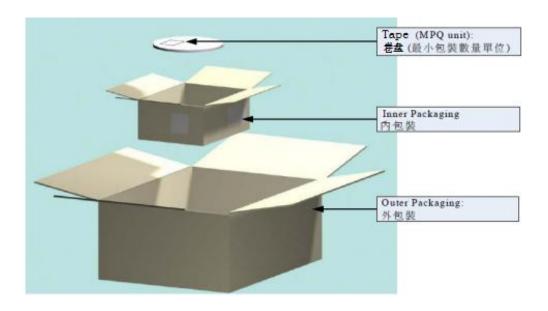
4) 剥离强度要求Peeling required

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)	1500	13"
内盒 (Inner box)	6000	340mm*340mm*65mm
外箱 (Out box)	18000	360mm*360mm*225mm

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7. RELIABIL	ITY TEST METHOD									
MECHANIC										
TESTITEM	SPECIFICATION		TEST DETAILS							
Substrate bend	dir △ 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 din	nension shall the pag	e 7/9						
	damage or elec-		F(Pressurization)							
	trical damege.			П						
				· · · · · · · · · · · · · · · · · · ·						
			R5 45±2 45±2							
					10/20					
			PRESSURE I	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)								
Solderability	New solder	Flux (ros	sin, isopropyl alcohol{	JIS-K-1522}) shall	be coated					
•	More than 90%	over the whole of the sample before hard, the sample shall								
		then be	then be preheated for about 2 minutes in a temperature of							
		$130{\sim}150{}^{\circ}{}_{\circ}$ and after it has been immersed to a depth 0.5mm								
		below fo	r 3±0.2 seconds fully	in molten solder N	/1705 with					
		a temperature 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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MECHANICAL									
TESTITEM	SPECIFICATION								
Resistance to	There shall be Temperature profile of reflow soldering								
Soldering heat	no damage or								
(reflow soldering)	problems.	Sodering temperature (°C) 300 - 250	Pre-heating 2 min passed through the	(Stortemper) 10 2 min. of the sec. the reflow oven with					
		The specimen shall be s for 1 hour, after which th	stored at standard	l atmospheric con	ditions				
ELECTRICAL			stored at standard	l atmospheric con	ditions				
ELECTRICAL TEST ITEM	SPECIFICATION		stored at standard	l atmospheric con shall be made.	ditions				
	There shall be no other		stored at standard ne measurement s TEST DETAI	l atmospheric con shall be made. LS					
TESTITEM	STEP COST - DE DANGER-MOUZE, SOM MANDE COLLECT. MEDICATE NO MESSAGRAPHICO.	for 1 hour, after which th	stored at standard ne measurement s TEST DETAI	l atmospheric con shall be made. LS					
TEST ITEM Insulation	There shall be no other	for 1 hour, after which the	TEST DETAI	I atmospheric con shall be made. LS this sample of top					
TEST ITEM Insulation resistance	There shall be no other	for 1 hour, after which the DC 100V voltage shall be surface and the termina	TEST DETAI TEST DETAI TEST DETAI TEST DETAI TEST DETAI	I atmospheric conshall be made. ILS this sample of toponan 1 $ imes$ 10 8 Ω .	,				
TEST ITEM Insulation	There shall be no other damage or problems.	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance	TEST DETAINE applied across I. e shall be more the applied for 1 mine	I atmospheric conshall be made. ILS this sample of toponan 1 $ imes$ 10 8 Ω .	,				
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems. There shall be	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance AC 100V voltage shall be	TEST DETAINE applied across I. e shall be more the applied for 1 mine	I atmospheric conshall be made. ILS this sample of toponan 1 $ imes$ 10 8 Ω .	,				
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be no other no other	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance AC 100V voltage shall be	TEST DETAINE applied across I. e shall be more the applied for 1 mine	I atmospheric conshall be made. ILS this sample of toponan 1 $ imes$ 10 8 Ω .	,				
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be no other no other damage or	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance AC 100V voltage shall be	TEST DETAI re applied across I. re shall be more the applied for 1 miles of this sample	I atmospheric conshall be made. LS this sample of top nan 1 × 10 ⁸ Ω. nute acrosset the	top				
TEST ITEM Insulation resistance Dielectric withstand voltage	There shall be no other damage or problems. There shall be no other damage or problems.	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance AC 100V voltage shall be surface and the termina.	TEST DETAI re applied across I. re applied for 1 mi I of this sample	I atmospheric conshall be made. LS this sample of topman 1 × 10 ⁸ Ω. nute acrosset the	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℃ ≦±10%	for 1 hour, after which the DC 100V voltage shall be surface and the termina. The insulation resistance AC 100V voltage shall be surface and the termina. The test shall be performed to the test shall be performed.	TEST DETAI re applied across I. re shall be more the applied for 1 minute applied for 2 minute applied for 2 minute applied for 3 minu	LS this sample of top an 1 × 10 ⁸ Ω. nute acrosset the ple has stabilized c, and the value	top				

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ENVIROMENT	ENVIROMENT CHARACTERISTICS							
TEST ITEM	SPECIFICATION							
High temperature	∆L/Lo≦±5%	The sam	The sample shall be left for 500hours in an atmospere with					
storage		a temper	a temperature of 125±2°C and a normal humidity.					
	There shall be	Upon co	Jpon 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	ple sha	all be left for 500 hours	in an atmosphere with			
storage		a temper	ature o	of -40±3℃.				
	There shall be	Upon co	mpletic	on of the test, the meas	surement shall be made			
	no mechanical	after the	sampl	e has been left in a nori	mal temperature and			
	damage.	normal h	umidity	y for 1 hour.				
Change of	△L/Lo≦±5%	The sam	ple sha	all be subject to 5 conti	nuos cycles, such as shown			
temperature		in the tal	ole 2 b	elow and then it shall b	e subjected to standard			
	There shall be	stmosph	stmospheric conditions for 1 hour, after which measurement					
	no other dama-	shall be	shall be made.					
	ge of problems							
		table 2						
				Temperature	Duration			
		1 −40±3°C 10 min.						
				(Themostat No.1)				
			2	Standard	5 sec. or less			
				atmospheric	No.1→No.2			
		3 125±2°C 30 min.						
				(Themostat No.2)				
			4	Standard	5 sec. or less			
				atmospheric	No.2→No.1			
Moisuture storage		The sam	ple sha	all be left for 500 hours	in a temperature of			
			•	numidity(RH) of 90 \sim 959	·			
	There shall be				surement shall be made			
	no mechanical	l .	·					
	damage.	after the sample has been left in a normal temperature and normal humidity more than 1 hour.						
Test conditions:								

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 $^{\circ}$ 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.