

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.4030.TYD330MT00	





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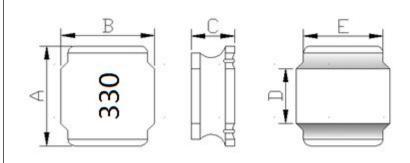
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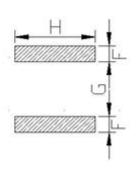
Modify Resume

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

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1、外形尺寸 Dimension:





1 12 CHILL				
A	4.00±0.2			
В	4.00±0.2			
C	3.0 Max			
D	1.8±0.3			
Е	3.2 Ref			
F	1.3 Ref			
G	1.6 Ref			
Н	3.7 Ref			

单位Unit: mm

2、产品品名构成 Product Spec. Model

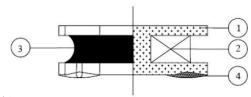
<u>SNR 4030 T Y D 330 M T 00</u> a b c d e f q h i

- 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)

3、结构Structure

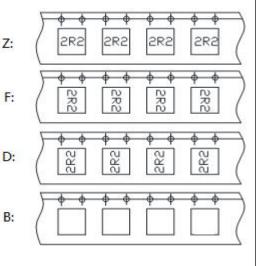


4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL SPECIFICATIONS	UL FILE NO.	TEMP. CLASS
1	CORE	N251H SDR-4.0-2.75-2.0-1.4S-P2 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.

▶ Lettering direction



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5、电性能参数表 Electrical Characteristics List

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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.4030.TYD330MT00	33	100/1.0	0.429	1.10	0.84	0.14	34.5

[※]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%Max或电感器表面温度上升 \leq 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 \leq 40℃, whichever is smaller (Reference ambient temperature 25℃)。

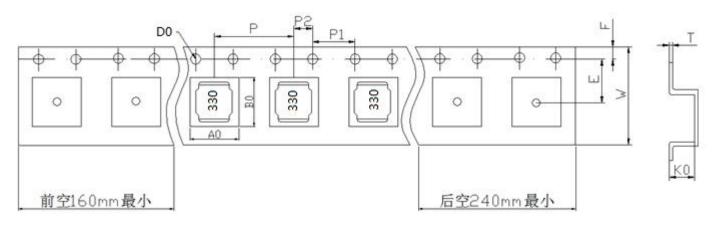
[※]工作温度Operating temperature rang: -40 $^{\circ}$ to +125 $^{\circ}$ (Including Self-heating)

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

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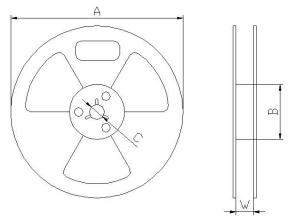
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



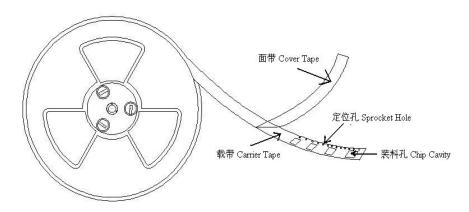
ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	Т
DIM	12.00	4.30	4.30	3.20	8.00	5.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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

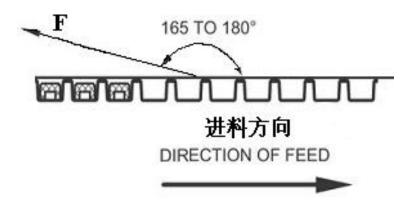


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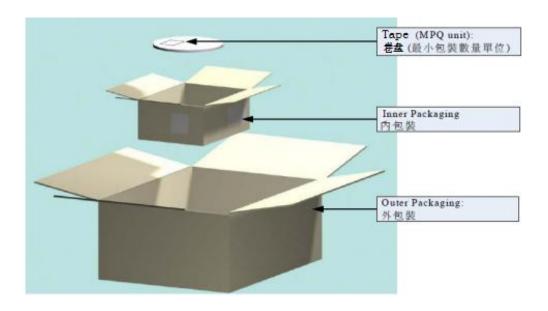
4)剥离强度要求Peeling required

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

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7. RELIABIL	TY TEST METHO)D							
MECHANIC									
TESTITEM	SPECIFICATIO	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.								
				<u> </u>					
		R5 45±2 45±2							
					20				
			PRESSURE ROD						
			figure-1		R340				
Vibration		The sam	The sample shall be soldered onto the printed 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 (ros	sin, isopropyl alcohol{	JIS-K-1522}) shall	l be coated				
Coluciasiii	More than 90%	over the	over the whole of the sample before hard, the sample shall						
		then be	then be preheated for about 2 minutes in a temperature of						
		130~15	130 \sim 150 $^{\circ}$ 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 .						
			an 90% of the electroo	de sections shall	be couered				
		with nev	with new solder smoothly when the sample is taken out of						
		the sold	the solder 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								
TEST ITEM		TEST DETAILS						
environ terror terror properties (MCC)	SPECIFICATION		TEST DETAI	LS				
20000-000-000	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	a consider				
Insulation resistance	KERNAY NO DATABABAN SONAMBANAN MARAHANANAN	surface and the termina	e applied across	this sample of top				
Insulation	There shall be no other		e applied across	this sample of top				
Insulation resistance	There shall be no other	surface and the termina	e applied across	this sample of top nan 1 × 10 ⁸ Ω.				
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.				
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.				
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.				
Insulation	There shall be no other damage or problems. There shall be no other 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. nute acrosset the	top			
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. nute acrosset the ple has stabilized	top			
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. nute acrosset the ple has stabilized and the value	top			

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F**C*									
ENVIROMENT CHARACTERISTICS									
TEST ITEM	SPECIFICATION								
High temperature	∆L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with							
storage		a temperature of 125±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 hour.							
Low temperature	△L/Lo≦±5%	The sample shall be left for 500 hours in an atmosphere with							
storage		a temperature of -40±3℃.							
	There shall be	Upon co	mpletic	on of the test, the meas	surement shall be made				
	no mechanical	after the	sample	e has been left in a nor	mal temperature and				
	damage.	normal humidity for 1 hour.							
Change of	△L/Lo≦±5%	The sam	ple sha	all be subject to 5 conti	inuos cycles, such as shown				
temperature		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								
		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℃	30 min.				
				(Themostat No.2)					
			4	Standard	5 sec. or less				
				atmospheric	No.2→No.1				
Moisuture storage		The cample shall be left for 500 bears in a temperature of							
molecule stolage		The sample shall be left for 500 hours in a temperature of $40\pm2^{\circ}$ C and a humidity (RH) of $90\sim95\%$.							
	There shall be			- , ,	surement shall be made				
	no mechanical	'	•						
	damage.	after the sample has been left in a normal temperature and normal humidity more than 1 hour.							
Test conditions:	damage.	Iloiniai II	umuit	, more than I flour.					

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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