

深圳市索瑞达电子有限公司

承 认 书 SPECIFICATION FOR APPROVAL

各 尸 名 称: Customer Name:	标准	
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.3012.TYD系列	

制造厂商	制造厂商		
Manufa	cturer		
拟制			
Draft	法电子有阻		
审核			
Check [⊥] ₹	呈专用獐妃团		
日期	2024-06-26		
Date	2024-06-26		

客户,	承认印章
Appro	val Signet
日期 Date	

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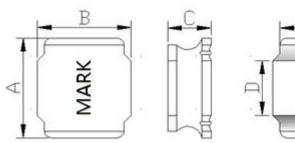
修改履历表

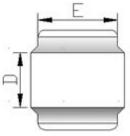
Modify Resume

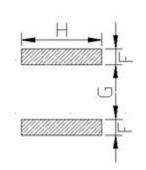
	Mounty Resume	
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-06-09	文件新制订 File formulation	A
2024-06-26	测试频率: 100KHz/0.25V改为100KHz/1V	A1

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1、外形尺寸 Dimension:







单位Unit: mm

A	3.00±0.2
В	3.00±0.2
C	1.2 Max
D	1.5Ref.
Е	2.5Ref
F	0.8Ref
G	1.5Ref
Н	2.7Ref

2、产品品名构成 Product Spec. Model

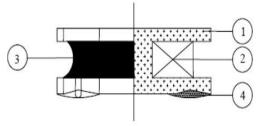
<u>SNR</u> <u>3012</u> <u>T</u> <u>Y</u> <u>D</u> <u>2R2</u> <u>M</u> <u>T</u> <u>00</u>

- 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

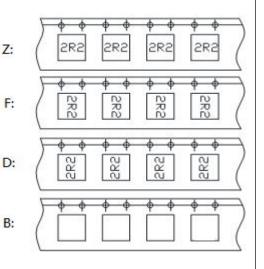


4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	Ni-Zn CORE OR EQUIVALENT	NA	NA
2	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT	E258243	180℃
3	ADHESIVE	EPOXY RESIN 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

3、电压能多数农 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 Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)		
SNR.3012.TYDR47NT00	0.47	100/1	0.035	2.20	2.20		
SNR.3012.TYDR82NT00	0.82	100/1	0.039	2.05	2.10		
SNR.3012.TYD1R0NT00	1.0	100/1	0.052	1.90	2.00		
SNR.3012.TYD1R5NT00	1.5	100/1	0.059	1.65	1.85		
SNR.3012.TYD2R2MT00	2.2	100/1	0.098	1.20	1.55		
SNR.3012.TYD3R3MT00	3.3	100/1	0.130	1.05	1.36		
SNR.3012.TYD3R9MT00	3.9	100/1	0.145	1.00	1.24		
SNR.3012.TYD4R7MT00	4.7	100/1	0.156	0.90	1.24		
SNR.3012.TYD6R8MT00	6.8	100/1	0.247	0.75	0.98		
SNR.3012.TYD100MT00	10	100/1	0.345	0.60	0.83		
SNR.3012.TYD120MT00	12	100/1	0.449	0.48	0.73		
SNR.3012.TYD150MT00	15	100/1	0.468	0.45	0.71		
SNR.3012.TYD220MT00	22	100/1	0.839	0.42	0.53		
SNR.3012.TYD330MT00	33	100/1	1.138	0.36	0.46		
SNR.3012.TYD470MT00	47	100/1	1.885	0.27	0.35		
SNR.3012.TYD680MT00	68	100/1	2.171	0.24	0.33		
SNR.3012.TYD820MT00	82	100/1	3.276	0.20	0.27		
SNR.3012.TYD101MT00	100	100/1	3.640	0.21	0.25		
	·						

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

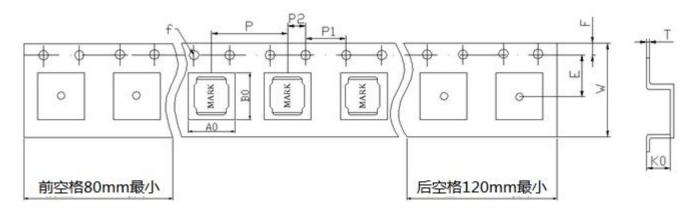
※储存温度Storage termperature rang: -40 ℃ to +125℃

额定电流: 电感量比初始值下降30%Max或电感器表面温度上升 \leq 40 $^{\circ}$ C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%Max inductance reduction from the initial value or inductor surface temperature to rise by \leq 40 $^{\circ}$ C, whichever is smaller (Reference ambient temperature 25 $^{\circ}$ C)。

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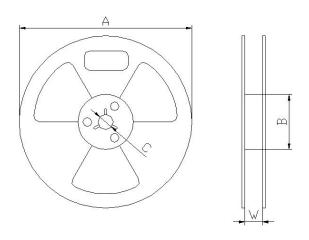
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



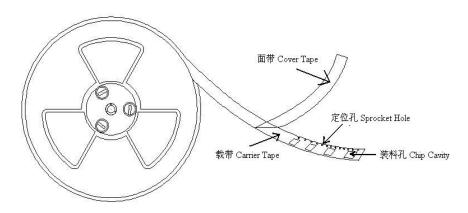
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	8.00	3.2	3.2	1.32	4.00	3.5	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



Α	180±0.5
В	100±0.5
С	13.5±0.5
W	8.5±0.5

3) 卷盘包装示意图 Tape packing diagram

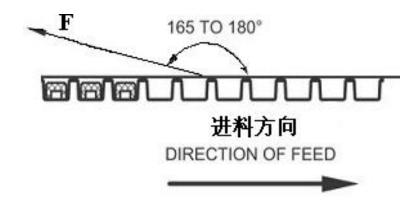


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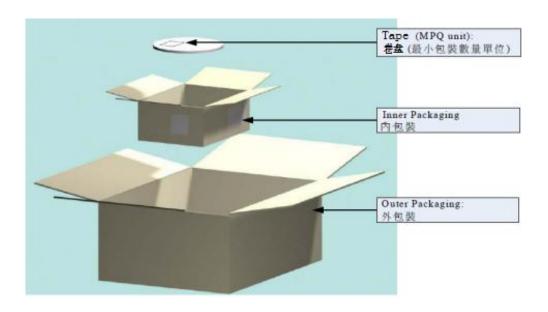
4) 剥离强度要求Peeling required

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	7"		
内盒 (Inner box)	20K	185mm*185mm*120mm		
外箱 (Out box)	120K	395mm*385mm*205mm		

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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 below for 3±0.2 seconds fully in molten solder M705 with a temperature of 245±2 $^{\circ}$ 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 0				
TESTITEM		SPECIF	ICATION					
Resistance to	There shall be Temperature profile of reflow soldering							
Soldering heat no damage or								
(reflow soldering)	problems.	The specimen shall be passed through the reflow oven condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric for 1 hour, after which the measurement shall be made						
ELECTRICAL								
TESTITEM	SPECIFICATION		TEST DETA	ILS				
Insulation resistance	There shall be no other damage or problems.	no other DC 100V voltage shall be applied across this sample of top						
Dielectric	There shall be	AC 100V voltage shall b	e applied for 1 m	inute acrosset the	top			
withstand	no other	surface and the termina	l of this sample					
voltage	damage or problems.							
Temperature	△L/L20°C ≦±10%	The test shall be perform	ned after the san	nple has stabilized	in			
characteristics	0~2000 ppm/°C	an ambient temperature	of - 40 to + 125°	$\mathbb C$,and the value				
		calculated based on the						
		temperature and narmal	humidity shall b	e	0 %.			

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TEST ITEM	SPECIFICATION								
High temperature	△L/Lo≦±5%	The sam	The sample shall be left for 500hours in an atmospere with						
storage		a tempei	a temperature of 125±2℃ and a normal humidity.						
	There shall be	Upon co	lpon completion of the measurement shall be made after the						
	no mechanical	sample h	ample has been left in a normal temperature and normal						
	damage.	humidity	numidity 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	rature o	of -40±3℃.					
	There shall be	Upon co	mpletio	on of the test, the measure	ement shall be made				
	no mechanical	after the	sampl	e has been left in a norma	al temperature and				
	damage.	normal h	umidit	y for 1 hour.					
Change of	∆L/Lo≦±5%	The sam	ple sha	all be subject to 5 continu	os cycles, such as shown				
temperature		in the tal	ble 2 b	elow and then it shall be s	subjected to standard				
	There shall be	stmosph	eric co	onditions for 1 hour, after v	vhich measurement				
	no other dama-	shall be	shall be made.						
	ge of problems								
				tab	ole 2				
				Temperature	Duration				
			1	-40 ± 3℃	10 min.				
				(Themostat No.1)					
			2	Standard	5 sec. or less				
				atmospheric	No.1→No.2				
			3	125±2℃	30 min.				
			4	(Themostat No.2) Standard					
			5 sec. or less						
				atmospheric	No.2→No.1				
Moisuture storage	△L/Lo≦±5%	The sam	ple sh	all be left for 500 hours in	a temperature of				
		40 ± 2 °C and a humidity(RH) of 90 \sim 95%.							
	There shall be	Upon co	mpletio	on of the test, the measure	ement shall be made				
				a haa haan laft in a nama	al temperature and				
	no mechanical	after the	sampl	e has been left in a norma	artemperature and				

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.