

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.3015.TYD系列	

制造厂商						
Manufa	cturer					
拟 制	.					
Draft	瑞达电子表。					
审核	答记录					
Check <u>I</u>	程专用章					
日期						
Date	2024-09-20					



地址:深圳市观澜镇福城街道新塘村8号源创园陆号A6栋3楼.

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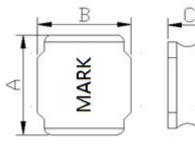
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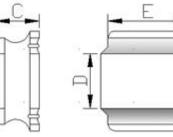
Modify Resume

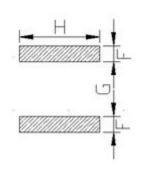
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-06-09	文件新制订 File formulation	A
2024-09-20	系列感量更新	A1

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1、外形尺寸 Dimension:







A	3.00±0.2
В	3.00±0.2
С	1.5 Max
D	1.5.±0.2
Е	2.5Ref
F	0.8Ref

1.5Ref 2.7Ref

单位Unit: mm

G

Н

Lettering direction

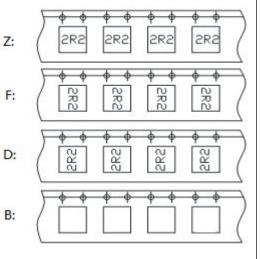
2、产品品名构成 Product Spec. Model

<u>SNR.3015</u>. <u>T Y D 6R8 M T 00</u> a b c d e f g h i

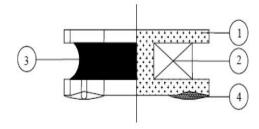
- a: 系列名称Series name
- b: 产品尺寸Product dimensions (AxBxC)
- C: 形状Shape (T:12边形12-Sided、B:8边形8-Sided、S:4边形4-Sided)
- d: 密封方式Sealing way (L: 冷封Cold seal Y: 热封Heat seal)
- e: 印字方向 Lettering direction ▶
- f: 电感值Inductance Value

(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	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.

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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. (MHz/v)	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)
SNR.3015.TYDR22NT00	0.22	1/1	0.023	4.00	2.80
SNR.3015.TYDR24NT00	0.24	1/1	0.023	4.00	2.80
SNR.3015.TYDR33NT00	0.33	1/1	0.023	4.00	2.80
SNR.3015.TYDR47NT00	0.47	1/1	0.027	2.50	2.35
SNR.3015.TYDR56NT00	0.56	1/1	0.035	2.40	2.10
SNR.3015.TYDR68NT00	0.68	1/1	0.035	2.40	2.10
SNR.3015.TYDR82NT00	0.82	1/1	0.039	2.32	2.10
SNR.3015.TYD1R0NT00	1.0	1/1	0.039	2.32	2.10
SNR.3015.TYD1R5NT00	1.5	1/1	0.065	2.00	1.70
SNR.3015.TYD1R8NT00	1.8	1/1	0.065	1.75	1.65
SNR.3015.TYD2R2NT00	2.2	1/1	0.078	1.60	1.60
SNR.3015.TYD2R7MT00	2.7	1/1	0.098	1.52	1.43
SNR.3015.TYD3R3MT00	3.3	1/1	0.104	1.32	1.36
SNR.3015.TYD3R6MT00	3.6	1/1	0.136	1.28	1.25
SNR.3015.TYD3R9MT00	3.9	1/1	0.136	1.20	1.20
SNR.3015.TYD4R3MT00	4.3	1/1	0.163	1.10	1.09
SNR.3015.TYD4R7MT00	4.7	1/1	0.163	1.10	1.09
SNR.3015.TYD5R6MT00	5.6	1/1	0.182	1.00	0.97
SNR.3015.TYD6R8MT00	6.8	1/1	0.260	0.85	0.85
SNR.3015.TYD8R2MT00	8.2	1/1	0.296	0.80	0.80
SNR.3015.TYD100MT00	10	1/1	0.325	0.72	0.77
SNR.3015.TYD120MT00	12	1/1	0.377	0.70	0.70
SNR.3015.TYD150MT00	15	1/1	0.455	0.66	0.65

※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: 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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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. (MHz/v)	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)
SNR.3015.TYD220MT00	22	1/1	0.598	0.52	0.57
SNR.3015.TYD270MT00	27	1/1	0.832	0.48	0.45
SNR.3015.TYD330MT00	33	1/1	1.066	0.40	0.36
SNR.3015.TYD470MT00	47	1/1	1.625	0.30	0.28
SNR.3015.TYD680MT00	68	1/1	1.885	0.28	0.23
SNR.3015.TYD820MT00	82	1/1	2.535	0.24	0.22
SNR.3015.TYD101MT00	100	1/1	2.990	0.23	0.21
SNR.3015.TYD121MT00	120	1/1	3.250	0.21	0.20
SNR.3015.TYD151MT00	150	1/1	4.940	0.18	0.19

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

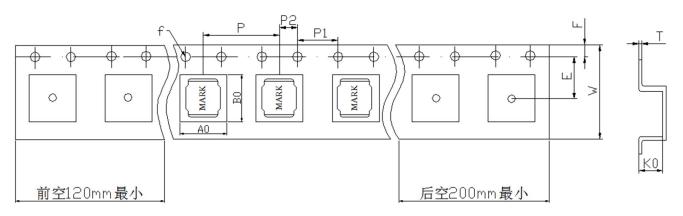
※储存温度Storage termperature rang: -40 ℃ to +125℃

额定电流: 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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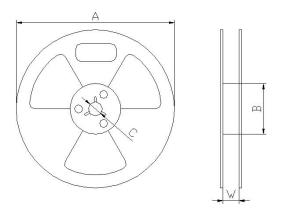
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



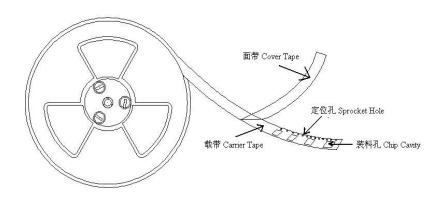
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	T
DIM	8.00	3.2	3.2	1.7	4.00	3.5	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



А	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

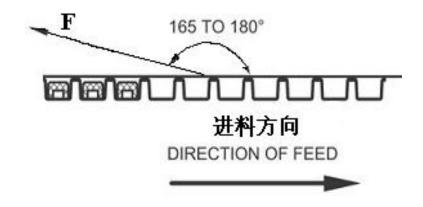


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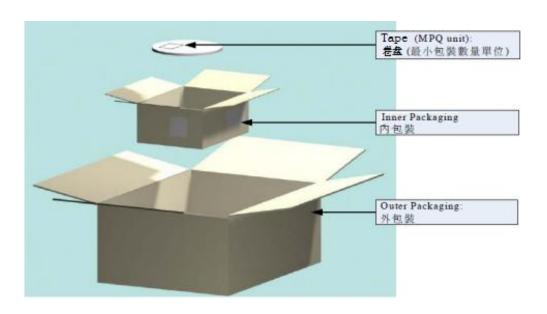
4) 剥离强度要求Peeling required

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. RELIABILIT	YTEST METHOD							
MECHANICA	.L							
TESTITEM	SPECIFICATION			TEST DETAILS	5			
Substrate bendir	∟/Lo≦±5%	The sample shall be soldered onto the printed circuit board						
		in figure	1 and a load applied ι	unitil the figure in	the arrow			
	There shall be	direction	is made approximate	ly 3mm.(keep tir	me 30 seconds)			
	no mechanical	PCB din	nension shall the page	· 7/9				
	damage or elec-		F(Pr	essurization)				
	trical damege.			Л				
			FIN					
			R5 45±2	45±2	<u> </u>			
					20			
			PRESSURE F	ROD				
			figure-1		R340			
Vibration	△L/Lo≦±5%	The sample shall be soldered onto the printed circuit board						
		and whe	en a vibration having a	n amplitude of 1.	52mm			
	There shall be	and a fr	equency of from 10 to	55Hz/1 minute r	epeated should			
	no mechanical	be appli	ed to the 3 directions	(X,Y,Z) for 2 hou	rs each.			
	damage.	(A total	of 6 hours)					
0 - 1 1 125	New solder	Flux (ros	sin, isopropyl alcohol{.	S-K-1522}\ sha	II he coated			
Solderability	More than 90%	,	whole of the sample b	-,				
	linere main ee/e		preheated for about 2		•			
			$0^\circ\!\!\!\subset$ and after it has be		•			
			r 3±0.2 seconds fully i					
			rature of 245±2°C .					
		'	an 90% of the electrod	e sections shall	be couered			
		with new	solder smoothly whe	n the sample is t	taken out of			
		the sold	er hath					

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MECHANICAL									
TEST ITEM SPECIFICATION									
Resistance to	There shall be Temperature profile of reflow soldering								
Soldering heat	no damage or								
(reflow soldering)		Sogering 150 100 50 The specimen shall be condition shown in the The specimen shall be for 1 hour, after which t	Pre-heating 2 min passed through the above profile for 1 to stored at standard	e reflow oven with time.	the				
ELECTRICAL	1								
TEST ITEM	SPECIFICATION		TEST DETAI	LS					
Insulation resistance	damage or problems.	DC 100V voltage shall l surface and the termina The insulation resistand	ıl.						
Dielectric	There shall be	AC 100V voltage shall	pe applied for 1 mi	nute acrosset the	top				
withstand	no other	surface and the termina	al of this sample						
voltage	damage or problems.								
Temperature	△L/L20°C ≦±10%	The test shall be perfor	med after the sam	ple has stabilized	in				
characteristics	0~2000 ppm/°C	an ambient temperature of - 40 to + 125℃ ,and the value							
		calculated based on the			D%.				

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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 tempe	a temperature of 125±2℃ and a normal humidity.						
	There shall be	Upon co	mpletio	on of the measurement sh	all be made after the				
	no mechanical	sample l	nas be	en left in a normal tempera	ature and normal				
	damage.	humidity	umidity for 1 hour.						
Low temperature	△L/Lo≦±5%	The sam	ple sh	all be left for 500 hours in	an atmosphere with				
storage		a tempe	rature (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	I temperature and				
	damage.	normal h	umidit	y for 1 hour.					
Change of	△L/Lo≦±5%	The sam	ple sh	all be subject to 5 continu	os 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								
				tab	le 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	△L/Lo≦±5%	The sam	ple sh	all be left for 500 hours in	a temperature of				
		40±2°C a	and a h	numidity (RH) of 90 \sim 95%.					
	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	I temperature and				
	damage.			y more than 1 hour.					

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 °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.