

# 深圳市索瑞达电子有限公司

# 承 认 书 SPECIFICATION FOR APPROVAL

客户名称: 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.5030.TYD系列	

制造厂商						
Manufa	cturer					
拟 制	<b></b>					
Draft	瑞达电子有假					
审核经验	第4月 第4月					
Check	程专用可靠口口					
日期						
Date	2024-09-23					

客户承认印章					
Approval Signet					
日期 Date					

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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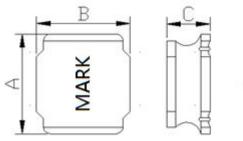
### 修改履历表

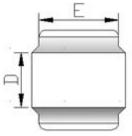
### **Modify Resume**

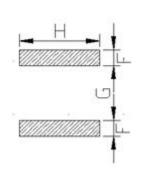
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-7-6	文件新制订 File formulation	A
2024-07-27	3. 3uH/4R7uH感量公差: ±30%改为±20%	A1
2024-09-23	系列感量更新	A2
	1	

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				1 1.0	

#### 1、外形尺寸 Dimension:







单位Unit: mm
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A	5.00±0.2
В	5.00±0.2
С	3.0 Max
D	2.5±0.3
Е	4.0 Ref
F	1.5 Ref
G	2.3 Ref
Н	4.7 Ref

2、产品品名构成 Product Spec. Model

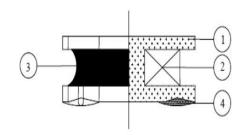
# <u>SNR.5030</u>. <u>T Y D 6R8 M T 00</u> a b c d e f g h i

- 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

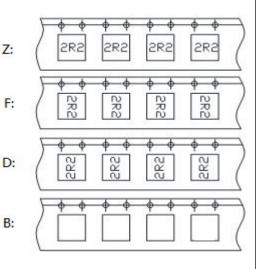


# 4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	Ni-Zn CORE OR EQUIVALENT	NA	NA
2	WIRE	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

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.5030.TYDR47NT00	0.47	100/1	0.013	8.00	5.00
SNR.5030.TYDR56NT00	0.56	100/1	0.013	7.50	4.50
SNR.5030.TYD1R0NT00	1.0	100/1	0.020	7.00	4.00
SNR.5030.TYD1R5NT00	1.5	100/1	0.024	5.50	3.80
SNR.5030.TYD2R2NT00	2.2	100/1	0.031	4.50	3.50
SNR.5030.TYD3R3MT00	3.3	100/1	0.039	4.00	2.70
SNR.5030.TYD4R7MT00	4.7	100/1	0.065	3.00	2.50
SNR.5030.TYD5R6MT00	5.6	100/1	0.070	3.00	2.30
SNR.5030.TYD6R8MT00	6.8	100/1	0.075	2.80	1.80
SNR.5030.TYD100MT00	10	100/1	0.100	2.10	1.60
SNR.5030.TYD120MT00	12	100/1	0.122	2.10	1.50
SNR.5030.TYD150MT00	15	100/1	0.156	1.70	1.35
SNR.5030.TYD220MT00	22	100/1	0.260	1.40	1.20
SNR.5030.TYD330MT00	33	100/1	0.351	1.20	1.05
SNR.5030.TYD470MT00	47	100/1	0.468	0.90	0.70
SNR.5030.TYD680MT00	68	100/1	0.611	0.77	0.60
SNR.5030.TYD101MT00	100	100/1	0.988	0.75	0.55
SNR.5030.TYD151MT00	150	100/1	1.470	0.55	0.50
SNR.5030.TYD181MT00	180	100/1	1.820	0.48	0.46
SNR.5030.TYD221MT00	220	100/1	2.080	0.45	0.45
SNR.5030.TYD331MT00	330	100/1	3.500	0.35	0.34
SNR.5030.TYD391MT00	390	100/1	3.770	0.33	0.32
SNR.5030.TYD471MT00	470	100/1	4.700	0.30	0.25
SNR.5030.TYD681MT00	680	100/1	6.500	0.24	0.20
SNR.5030.TYD102MT00	1000	200/1	10.80	0.20	0.15
SNR.5030.TYD152MT00	1500	200/1	16.90	0.17	0.12

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

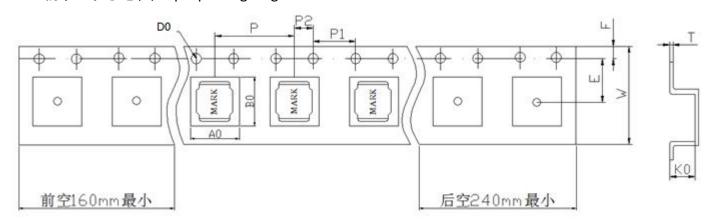
※储存温度Storage termperature rang: -40 ℃ to +125℃

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≦ 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  $\le 40$ °C, whichever is smaller ( Reference ambient temperature 25°C)。

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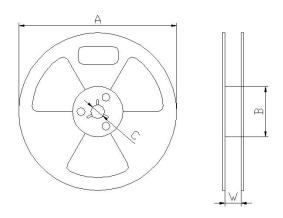
# 6、产品包装 Packaging

#### 1) 载带包装示意图 Tape packing diagram



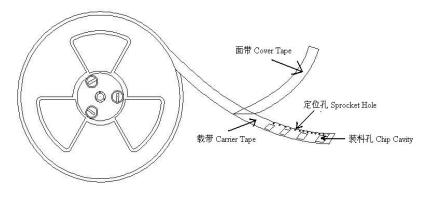
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	12.00	5.30	5.30	3.20	8.00	5.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

# 2)卷盘包装示意图 Tape packing diagram



А	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

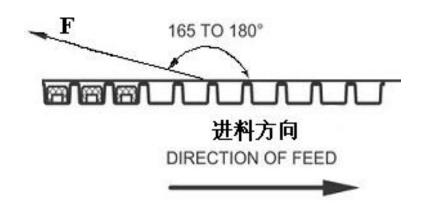


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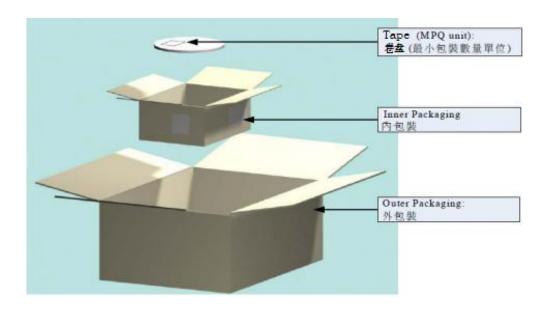
### 4)剥离强度要求Peeling required

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*235mm

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7.RELIABILIT	YTEST METHOD								
MECHANICA	\L								
TESTITEM	SPECIFICATION TEST DETAILS								
Substrate bendi	r∆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 approximate	ely 3mm.(keep tim	e 30 seconds)				
	no mechanical	PCB din	nension shall the page	e 7/9					
	damage or elec-		F(P	ressurization)					
	trical damege.								
				<u> </u>					
			R5 45±2	45±2					
					20				
			PRESSURE F	ROD					
			figure-1		R340				
Vibration		The sam	iple shall be soldered	onto the printed c	ircuit board				
		and whe	en a vibration having a	n amplitude of 1.5	i2mm				
	There shall be	and a fr	equency of from 10 to	55Hz/1 minute re	peated should				
	no mechanical	be appli	ied to the 3 directions	(X,Y,Z) for 2 hour	s 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 b	pefore hard, the sa	ample shall				
		then be	preheated for about 2	minutes in a temp	perature of				
		130~15	50°⊜ and after it has b	een immersed to	a depth 0.5mm				
		below for 3±0.2 seconds fully in molten solder M705 with							
		a tempe	rature of 245±2℃.						
		More tha	an 90% of the electroo	de sections shall b	e 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	shall be Temperature profile of reflow soldering						
Soldering heat	no damage or							
(reflow soldering)	problems.	Sodering 150 Soder	Pre-heating  2 min	(Stor tempe				
		condition shown in the a The specimen shall be s for 1 hour, after which th	above profile for 1	time. d atmospheric cond				
ELECTRICAL		condition shown in the a	above profile for 1	time. d atmospheric cond				
ELECTRICAL TEST ITEM	SPECIFICATION	condition shown in the a	above profile for 1	time. d atmospheric cond shall be made.				
	SPECIFICATION There shall be no other damage or problems.	condition shown in the a	above profile for 1 stored at standard ne measurement s  TEST DETA pe applied across I.	time. d atmospheric condshall be made.  ILS this sample of top	ditions			
TEST ITEM Insulation	There shall be no other	condition shown in the a The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b surface and the termina	TEST DETA the applied across I. the shall be more to	time. d atmospheric condishall be made.  ILS this sample of top han 1 × 10 <sup>8</sup> Ω.	ditions			
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.	condition shown in the a The specimen shall be s for 1 hour, after which the DC 100V voltage shall be surface and the termina The insulation resistance	TEST DETA the applied across I. the shall be more to the applied for 1 m.	time. d atmospheric condishall be made.  ILS this sample of top han 1 × 10 <sup>8</sup> Ω.	ditions			
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.  There shall be	condition shown in the a The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b surface and the termina The insulation resistanc  AC 100V voltage shall b	TEST DETA the applied across I. the shall be more to the applied for 1 m.	time. d atmospheric condishall be made.  ILS this sample of top han 1 × 10 <sup>8</sup> Ω.	ditions			
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems.  There shall be no other no other damage or	condition shown in the a The specimen shall be s for 1 hour, after which th  DC 100V voltage shall b surface and the termina The insulation resistanc  AC 100V voltage shall b	TEST DETA  Te applied across  I.  Te shall be more to the applied for 1 m.  The applied for 1 m.	time. d atmospheric condshall be made.  ILS this sample of top han 1 × 10 <sup>8</sup> Ω.	top			
TEST ITEM Insulation resistance  Dielectric withstand voltage	There shall be no other damage or problems.  There shall be no other damage or problems.	condition shown in the a The specimen shall be s 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 DETA  TEST DETA  TE shall be more to the applied for 1 m.  To this sample	time. d atmospheric condshall be made.  ILS this sample of top han 1 × 10 <sup>8</sup> Ω.  inute acrosset the	top			

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	CHARACTERISTICS	5						
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 $\pm$ 2 $^{\circ}$ C 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	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	sample	e has been left in a nor	mal temperature and			
	damage.	normal h	umidity	/ 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 tal	ole 2 be	elow and then it shall b	e subjected to standard			
	There shall be	stmosph	eric co	nditions for 1 hour, afte	er which measurement			
	no other dama-	shall be	made.					
	ge of problems							
				1	table 2			
				Temperature	Duration			
			1	−40 <b>±3</b> °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 sam	nle sha	all be left for 500 hours	in a temperature of			
moisulure storage			•	umidity(RH) of 90 $\sim$ 959	·			
	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:								

#### 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 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.