

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.3012.TYD470MT00

制造厂商		
Manufa	cturer	
拟制	唐杨英	
寧核 T 程 专	章。在对	
日期 Date	2023-3-21	

客户,	
Appro	val 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.

Address: 3Rd Floor, Building A6, Yuanchuangyuanlu, No. 8 Xintang Village, Fucheng Street, Guanlan Town, Shenzhen.

电话 Tel: 0755-29803356 传真 Fax: 0755-29803506

电子邮件 E-mail: sorde@vip.163.com

网址 http//www.szsorede.com

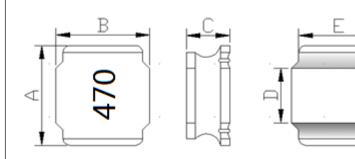
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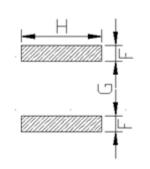
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修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
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1、外形尺寸 Dimension:





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

单位Unit: mm

2、产品品名构成 Product Spec. Model

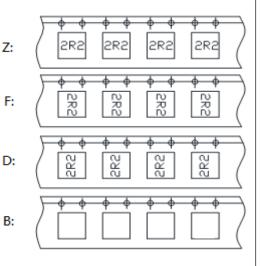
<u>SNR 3012 T Y D 470 M T 00</u> a b c d e f q h i

- 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

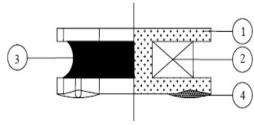
(1R0:1.0uH; 100: 10uH; 101:100uH)

- 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)

Lettering direction



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

JY CITRU多数设 LICCH	ricar Characteris	1105 12150			
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.TYD470MT00	47	100/1.0	1.885	0.27	0.35

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

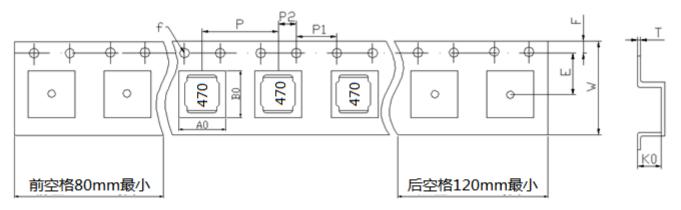
※储存温度Storage termperature rang: -40 ℃ to +125 ℃

额定电流:指使电感量比初始值下降30%Max或电感器表面温度上升 \triangle T \leq 40 $^{\circ}$ C 的电流值(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 \triangle T \leq 40 $^{\circ}$ C, whichever is smaller (Reference ambient temperature 25 $^{\circ}$ C)。

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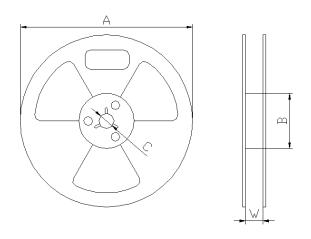
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



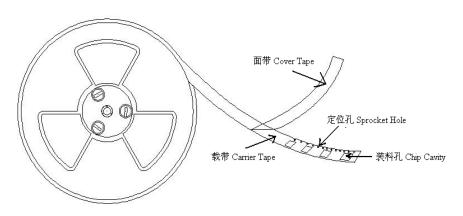
ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	Т
DIM	8.00	3.2	3.2	1.32	4.00	3.5	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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

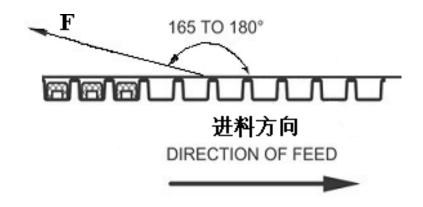


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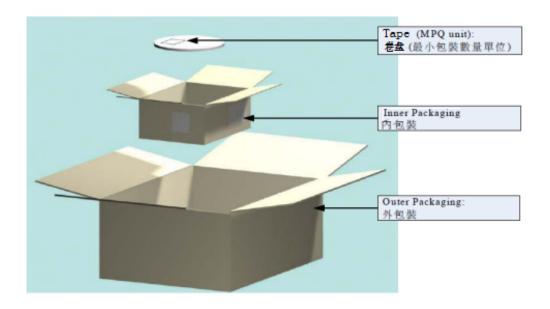
4) 剥离强度要求Peeling required

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 $130\sim150^{\circ}$ 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. 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							
TEST ITEM							
Resistance to	There shall be	Tempe	erature profile of re	eflow soldering			
Soldering heat	no damage or						
(reflow soldering)	problems.	Soldering (Peak temperature $260\pm3^{\circ}$ C 10 sec $\frac{300}{250}$ $\frac{250}{150}$ $\frac{30}{200}$ 3					
ELECTRICAL							
ELECTRICAL TEST ITEM	SPECIFICATION		TEST DETA	ILS			
	There shall be no other	DC 100V voltage shall b					
TEST ITEM		DC 100V voltage shall be surface and the termina	e applied across				
TEST ITEM Insulation	There shall be no other		ne applied across	this sample of top			
TEST ITEM Insulation resistance	There shall be no other	surface and the termina	ne applied across I. The shall be more the	this sample of top nan 1 × 10 ⁸ Ω.	top		
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems.	surface and the termina The insulation resistance	ne applied across I. The shall be more the applied for 1 mi	this sample of top nan 1 × 10 ⁸ Ω.	top		
TEST ITEM Insulation resistance Dielectric	There shall be no other damage or problems. There shall be	surface and the termina The insulation resistance AC 100V voltage shall be	ne applied across I. The shall be more the applied for 1 mi	this sample of top nan 1 × 10 ⁸ Ω.	top		
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be no other no other	surface and the termina The insulation resistance AC 100V voltage shall be	ne applied across I. The shall be more the applied for 1 mi	this sample of top han 1 × 10 8 Ω .	top		
TEST ITEM Insulation resistance Dielectric withstand	There shall be no other damage or problems. There shall be no other no other damage or	surface and the termina The insulation resistance AC 100V voltage shall be	ne applied across I. The shall be more the applied for 1 mine applied for 1 mine I of this sample	this sample of top that $1 \times 10^8 \Omega$. The nute acrosset the sample of top that the sample of top the sample of top the sample of the sampl			
TEST ITEM 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 resistance AC 100V voltage shall be surface and the termina	ne applied across I. The shall be more the applied for 1 minor app	this sample of top that $1 \times 10^8 \Omega$. The position of the sample of top that Ω is a sample of Ω .			
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°C ≤±10%	surface and the terminal The insulation resistance AC 100V voltage shall be surface and the terminal The test shall be performed.	the applied across I. The shall be more the sample of this sample The after 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			

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TEST ITEM	SPECIFICATION							
High temperature	∆L/Lo≦±5%	The sample shall be left for 500hours in an atmospere with						
storage			erature of 125±2 $^{\circ}$ C and a normal humidity.					
Ü	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	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	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 sha	all be subject to 5 continu	os cycles, such as shown			
temperature		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	made.					
	ge of problems							
				tab	le 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.			
				(Themostat No.2)				
			4	Standard	5 sec. or less			
				atmospheric	No.2→No.1			
Moisuture storage	△L/Lo≦±5%	The sam	The sample shall be left for 500 hours in a temperature of					
$40\pm2^{\circ}_{\rm C}$ and a humidity(RH) of $90\sim95\%$.								
· ·		1	There shall be Upon completion of the test, the measurement shall be made					
Ü	There shall be	Upon co	mpletic	on of the test, the measure	ement shall be made			
Ū	There shall be no mechanical		-	on of the test, the measure e has been left in a norma				

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.