

深圳市索瑞达电子有限公司

承 认 书 SPECIFICATION FOR APPROVAL

索瑞达料号: Sorede P/N:	SNR.1050.TYD系列	
产 品 名 称 : Product Name:	功率电感	
客户料号: Customer P/N:		
客户名称: Customer Name:	标 准	

制造厂商					
Manufa	cturer				
拟 制	莫程惠				
Draft					
审核测频	满达电子有图				
Check T	程专用章				
日期	IT 4 /11 #				
Date	2024-09-25				

客户承认印章					
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

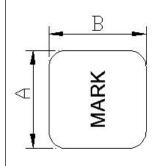
修改履历表

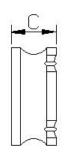
Modify Resume

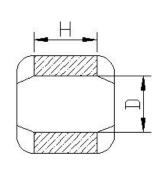
修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-06-08	文件新制订 File formulation	A
2024-07-27	3. 3uH/4. 7uH感量公差: ±30%改为±20%	A1
2024-09-25	系列感量更新	A2

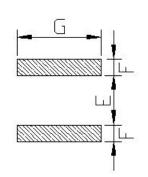
文件编号 File Number	SRD-WI-5348	版本号	A2	页码	1/9
File Number		Version Number		page	

1、外形尺寸 Dimension:









单位Unit: mm

10.0±0.3
10.0±0.3
5.0Max.
6.4Ref
6.2Ref
2.0Ref
5.5Ref
4.2Ref

2、产品品名构成 Product Spec. Model

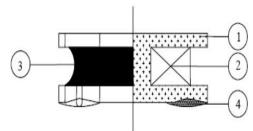
$\frac{\mathsf{SNR} \cdot 1050}{\mathsf{a}} \cdot \frac{\mathsf{T}}{\mathsf{D}} \cdot \frac{\mathsf{Y}}{\mathsf{D}} \cdot \frac{\mathsf{D}}{\mathsf{D}} \cdot \frac{\mathsf{2R2}}{\mathsf{D}} \cdot \frac{\mathsf{N}}{\mathsf{D}} \cdot \frac{\mathsf{T}}{\mathsf{D}} \cdot \frac{\mathsf{OO}}{\mathsf{D}}$

- 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

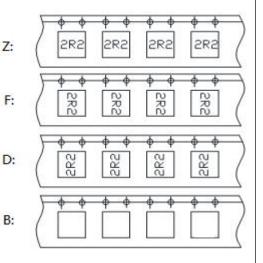


4、材料清单MATERIAL LIST

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



文件编号 File Number	SRD-WI-5348	版本号 Version Number	A2	页码 page	2/9
---------------------	-------------	-----------------------	----	------------	-----

5、电性能参数表 Electrical Characteristics List

N TIMED WAY LICCU					
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.1050.TYD1R0NT00	1.0	100/1	0.018	14.2	6.40
SNR.1050.TYD1R5NT00	1.5	100/1	0.020	12.8	6.00
SNR.1050.TYD2R2NT00	2.2	100/1	0.025	12.1	5.50
SNR.1050.TYD3R3MT00	3.3	100/1	0.027	11.2	5.00
SNR.1050.TYD4R7MT00	4.7	100/1	0.030	10.3	4.60
SNR.1050.TYD6R8MT00	6.8	100/1	0.037	9.00	4.20
SNR.1050.TYD8R2MT00	8.2	100/1	0.040	8.50	3.80
SNR.1050.TYD100MT00	10	100/1	0.048	7.20	3.70
SNR.1050.TYD150MT00	15	100/1	0.059	6.00	3.20
SNR.1050.TYD220MT00	22	100/1	0.085	4.30	2.70
SNR.1050.TYD330MT00	33	100/1	0.104	4.00	2.30
SNR.1050.TYD470MT00	47	100/1	0.163	3.30	2.00
SNR.1050.TYD560MT00	56	100/1	0.201	3.10	1.90
SNR.1050.TYD680MT00	68	100/1	0.235	3.00	1.80
SNR.1050.TYD101MT00	100	100/1	0.338	2.50	1.40
SNR.1050.TYD151MT00	150	100/1	0.438	2.00	1.20
SNR.1050.TYD221MT00	220	100/1	0.675	1.80	1.00
SNR.1050.TYD271MT00	270	100/1	0.858	1.50	0.90
SNR.1050.TYD301MT00	300	100/1	0.975	1.45	0.88
SNR.1050.TYD331MT00	330	100/1	1.10	1.40	0.85
SNR.1050.TYD391MT00	390	100/1	1.30	1.25	0.78
SNR.1050.TYD471MT00	470	100/1	1.43	1.20	0.73
SNR.1050.TYD561MT00	560	100/1	1.75	1.10	0.68
SNR.1050.TYD681MT00	680	100/1	1.98	1.00	0.65

[※]公差Tolerance: N:±30%、M:±20%、K:±10%.

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 \leq 40℃, whichever is smaller (Reference ambient temperature 25℃)。

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

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

文件编号 File Number	SRD-WI-5348	版本号 Version Number	A2	页码 page	3/9
---------------------	-------------	-----------------------	----	------------	-----

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.1050.TYD821MT00	820	100/1	2.73	0.90	0.55
SNR.1050.TYD102MT00	1000	100/1	3.42	0.80	0.50
SNR.1050.TYD152MT00	1500	200/1	4.95	0.65	0.40
SNR.1050.TYD202MT00	2000	200/1	6.50	0.55	0.38
SNR.1050.TYD302MT00	3000	200/1	9.10	0.50	0.30
SNR.1050.TYD402MT00	4000	200/1	12.35	0.40	0.24
SNR.1050.TYD153MT00	15000	200/1	48.10	0.23	0.12

[※]公差Tolerance: N:±30%、M:±20%、K:±10%.

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)。

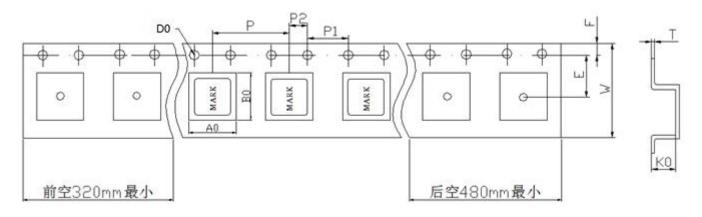
[※]工作温度Operating temperature rang: -40 ℃ to +125℃ (Including Self-heating)

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

文件编号	SRD-WI-5348	版本号	A2	页码	4/9
File Number		Version Number		page	

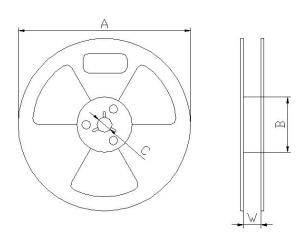
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



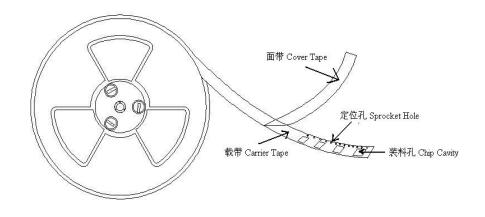
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	24.00	10.4	10.4	5.2	16.00	11.5	1.75	1.50	4.00	2.00	0.40
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

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	24.5±0.5

3) 卷盘包装示意图 Tape packing diagram

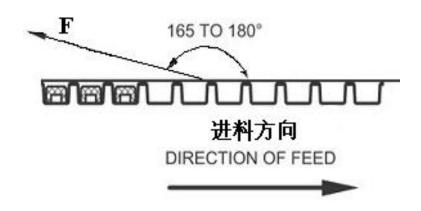


文件编号 File Number	SRD-WI-5348	版本号 Version Number	A2	页码	5/9
File Number		Version Number		nage	

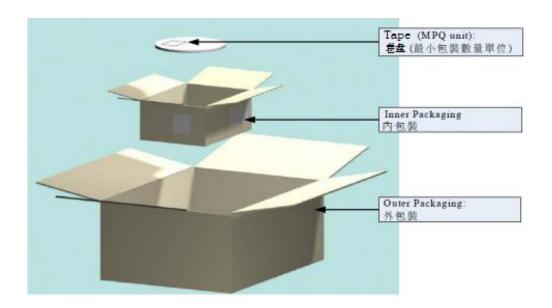
4)剥离强度要求Peeling required

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)	800	13"
内盒 (Inner box)	1600	340mm*340mm*65mm
外箱 (Out box)	4800	360mm*360mm*235mm

文件编号 File Number SRD-WI-534		348	版本号 Version Number	A2	页码 page	6/9				
7. RELIABILI	ITY TEST METHOD									
MECHANIC	AL									
TESTITEM	TEST ITEM SPECIFICATION TEST DETAILS									
Substrate bend	lir △ L/Lo ≦±5%	The sam	nple shall be soldered	onto the printed o	ircuit board					
		in figure	1 and a load applied	unitil the figure in	the arrow					
	There shall be	direction	n is made approximate	ely 3mm.(keep tin	ne 30 seconds)					
	no mechanical	PCB din	nension shall the page	e 7/9						
	damage or elec- F(Pressurization)									
	trical damege.									
			R5 45±2 45±2							
			10 20							
		PRESSURE ROD								
		figure-1								
Vibration		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)								
Solderability	New solder	Flux (rosin, isopropyl alcohol{JIS-K-1522}) shall be coated								
•	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∼150°C and after it has been immersed to a depth 0.5mm								
		below fo	r 3±0.2 seconds fully	in molten solder N	/1705 with					
		a tempe	rature of 245±2 $^\circ\mathbb{C}$.							
		More that	an 90% of the electroo	de sections shall l	oe couered					
		with nev	v solder smoothly whe	en the sample is t	aken out of					
		the sold	er bath.							

文件编号 File Number	SRD-WI-5348	版本号 Version Number	A2	页码 page	7/9
MECHANICAL					
TESTITEM		SPECIF	ICATION		
Resistance to	There shall be	Tempe	erature profile of re	flow soldering	
Soldering heat	no damage or				
(reflow soldering)	problems.	The specimen shall be produced to the specimen shall be specimen shall specimen specimen shall specimen s	Pre-heating 2 min passed through the above profile for 1 to stored at standard	e reflow oven with time.	the
ELECTRICAL					
,01					
TEST ITEM	SPECIFICATION		TEST DETAI	LS	
0000 - 1000 000 DAY DAY DAY DAY	There shall be no other	DC 100V voltage shall b	100 (100 (100 (100 (100 (100 (100 (100	a consider	
Insulation	ELLINOSA, INC DATUM RANDA C. POLINGORION CO. TX MADELLING ALTONOMOUS.	DC 100V voltage shall be surface and the termina	e applied across	a consider	
Insulation	There shall be no other		e applied across t	this sample of top	
Insulation resistance	There shall be no other	surface and the termina	e applied across t l. e shall be more th	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 to the shall be more the applied for 1 min	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 be	e applied across to the shall be more the applied for 1 min	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 be	e applied across to the shall be more the applied for 1 min	this sample of top nan 1 × 10 ⁸ Ω.	
TEST ITEM Insulation resistance Dielectric withstand voltage Temperature	There shall be no other damage or problems. There shall be no other damage or	surface and the termina The insulation resistanc AC 100V voltage shall be	e applied across to a shall be more the applied for 1 minus 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 to the shall be more the applied for 1 minutes a	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 a shall be more the shall be more the applied for 1 minutes applied	this sample of top nan 1 × 10 ⁸ Ω. nute acrosset the ple has stabilized and the value	top

文件编号	SRD-WI-5348	版本号	Δ2	页码	8/9
File Number	SKD-W1-3340	Version Number	A2	page	0/ /

			1 / 02	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	page					
ENVIROMENT	CHARACTERISTICS	 S								
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	pon 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 tempe	rature o	of -40±3℃.						
	There shall be	Upon co	mpletic	on of the test, the meas	urement shall be made					
	no mechanical	after the	sample	e has been left in a nori	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	nuos 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	onditions for 1 hour, afte	r which measurement					
	no other dama-	shall be	made.							
	ge of problems									
				1	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	△L/Lo≦±5%	The sam	ple sha	all be left for 500 hours	in a temperature of					
		 40±2℃ a	and a h	umidity(RH) of 90 \sim 95%	%.					
	There shall be				urement shall be made					
	no mechanical	after the	sample	e has been left in a nori	mal temperature and					
	damage.	normal h	umidity	/ more than 1 hour.						
Test conditions:										

Test conditions:

The sample shall be reflow soldered onto the printed circuit board in every test.

文件编号 File Number	SRD-WI-5348	版本号	A2	页码	9/9
File Number		Version Number		page	

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.