

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:	SNH.3015.TYB4R7MT00	
产 品 名 称 : Product Name:	功率电感	
客 户 料 号 : Customer P/N:		
客 户 名 称 : Customer Name :		

制造厂商					
Manufacturer					
拟制	黄小香端达电子有解。				
Draft	师 丛 电 丁 有 魔 _一				
审核	程专用春妃团				
Check	117				
日期	2021-04-20				
Date	2021-04-20				

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.

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

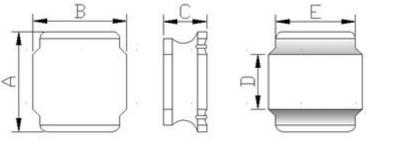
修改履历表

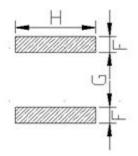
Modify Resume

修改日期			修改明细	修改后版本号
Date modified			Modify Details	Version No.
2021-04-20	文件新制订	File formulation		A
L	I			L

文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	1/11
		, 6151611 1 (61116 61		Page	

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
G	1.5Ref
Н	2.7Ref

单位Unit: mm

2、产品品名构成 Product Spec. Model

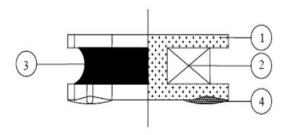
<u>SNH</u> <u>3015</u> <u>T</u> <u>Y</u> <u>B</u> <u>4R7</u> <u>M</u> <u>T</u> <u>00</u> a b c d e f g h i

- 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

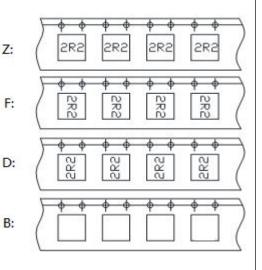


4、材料清单MATERIAL LIST

NO.	PARTS	MATERIAL	UL FILE NO.	TEMP. CLASS
1	CORE	ALLOY 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 SR	D-WI-13617	版本号 Version Number	A	页码 page	2/11
------------------------	------------	-----------------------	---	------------	------

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	直流电阻 DCR Max (Ω)	饱和电流 Isat (A)	温升电流 Irms (A)
SNH.3015.TYB4R7MT00	4.7	100/0.25	0.185	2.50	1.70

※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%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% inductance reduction from the initial value or inductor surface temperature to rise by 40℃, whichever is smaller (Reference ambient temperature 25℃)。

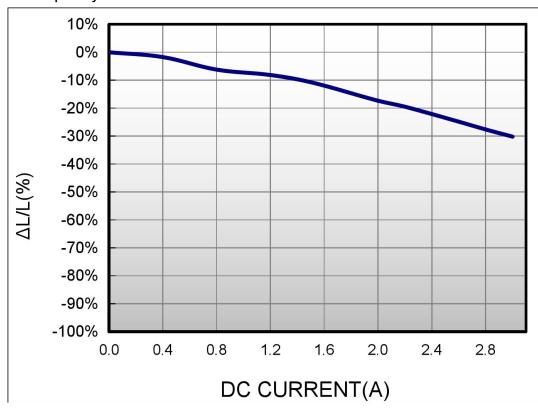
文件约 File Nu		SF	RD-WI-13617		版本号 Version Num	ıber	A		页码 page		3/11
1)特性	特性测试数据										
CU	STOMER	2				QU	JANTITY		5PCS	S	
OESO	CRIPTI	ON	SNH. 3015.	ГҮІ	B4R7MT00		DATE		2021/4	-/2	0
ITEM	LOA	(uH)	2.5A (uH)		DCR(Ω)			Di	mension		
SPEC	4. 7uH	±20%	≥0A×70%		0. 185Max.		A (mm)		B (mm)		C (mm)
SPEC		100KH2	Z/0.3V		U. 163Max.	3.	0 ± 0.2		3.0 ± 0.2		1.5Max
1	4.	51	3. 56		0. 152		3. 02		3. 02		1.42
2	4.	68	3. 60		0. 158		3. 03		3. 01		1. 43
3	4.	75	3. 69		0. 159		3. 01		3. 04		1. 45
4	4.	83	3. 69		0. 157		3. 02		3. 02		1. 46
5	4.	70	3. 71		0. 158		3. 03		3. 03		1. 42
Averag e	4.	69	3. 65		0. 16		3. 02		3. 02		1. 44
R	0.	32	0. 15		0.01		0.02		0. 03		0.04

File Number Version Number page	文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	4/11
-------------------------------------	---------------------	--------------	-----------------------	---	------------	------

2) ISAT曲线图

SNH.3015.TYB4R7MT00							
TIME(秒) Isat(A) L(uH) ΔL							
1.00	0.00	4.67	0.00%				
1.00	0.40	4.59	-1.71%				
1.00	0.80	4.38	-6.21%				
1.00	1.20	4.29	-8.14%				
1.00	1.50	4.17	-10.71%				
1.00	2.00	3.86	-17.34%				
1.00	2.20	3.76	-19.49%				
1.00	2.60	3.51	-24.84%				
1.00	2.80	3.38	-27.62%				
1.00	3.00	3.26	-30.19%				

 $\rm \%DC$ bias current characteristics in the $\,$ ambient temperature 25 $^{\circ}\mathrm{C}$ Frequency 100KHz/0.25V



		文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	5/11
--	--	---------------------	--------------	-----------------------	---	------------	------

3)IRMS曲线图

SNH.3015.TYB4R7MT00										
TIME(分)	Irms(A)	L(uH)	Temp(℃)	ΔT(°ℂ)						
0	0.00	4.67	26.7	0						
10	1.70	4.64	58.8	32.1						
20	1.70	4.64	58.8	32.1						
30	1.70	4.64	58.8	32.1						
40	1.70	4.64	58.8	32.1						
50	1.70	4.64	58.8	32.1						
60	1.70	4.64	58.8	32.1						

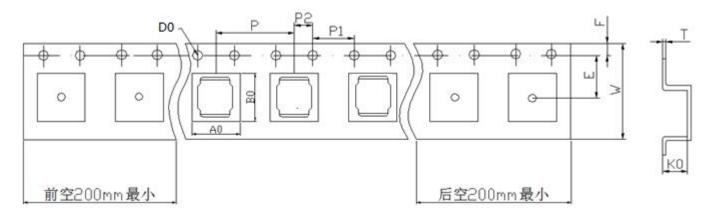
 $\rm \%DC$ bias current characteristics in the $\,$ ambient temperature 25 $^{\circ}C$ Frequency 100KHz/0.25V



文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	6/11
---------------------	--------------	-----------------------	---	------------	------

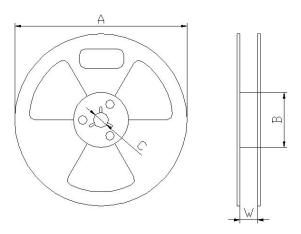
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



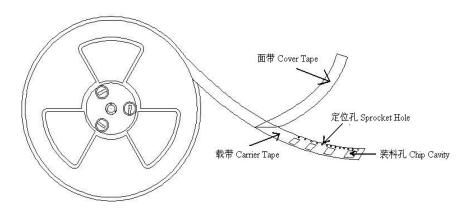
ITEM	W	A0	В0	K0	P	Е	F	D0	Р0	P2	Т
DIM	8.00	3.2	3.2	1.8	4.00	3.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



А	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

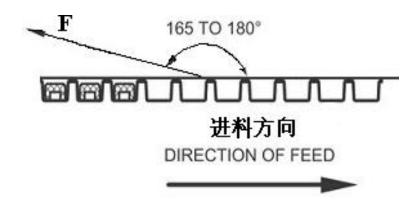


文件编号 File Number SRD-WI-136	版本号 Version Number	A	页码 page	7/11
--------------------------------	-----------------------	---	------------	------

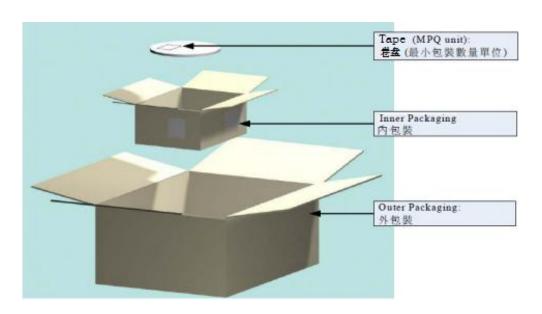
4) 剥离强度要求Peeling required

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

		文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	8/11
--	--	---------------------	--------------	-----------------------	---	------------	------

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.

文件编号 File Number	SRD-WI-13617	版本号 Version Number	A	页码 page	9/11					
MECHANICAL				1 0						
TESTITEM										
Resistance to	There shall be	Temperature profile of reflow soldering								
Soldering heat	no damage or	Francis Francis Constanting								
(reflow soldering)	problems.	The specimen shall be passed through the reflow oven with the condition shown in the above profile for 1 time. The specimen shall be stored at standard atmospheric conditions 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.	DC 100V voltage shall be surface and the termina The insulation resistance	l.							
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°	ℂ,and the value						
		calculated based on the	value applicable	in a normal						
		temperature and narmal	humidity shall b	e	0%.					

文件编号	SRD-WI-13617	版本号	_	页码	10/11
File Number	SKD-W1-1301/	Version Number	A	page	10/11

			1 . , , ,		page					
ENVIROMENT	CHARACTERISTICS	ics								
TEST ITEM			SPECIFICATION							
High temperature	△L/Lo≦±5%	The sam	he sample shall be left for 500hours in an atmospere with							
storage		a tempei	temperature of 125±2℃ and a normal humidity.							
	There shall be	Upon co	mpletic	on of the measurement	shall be made after the					
	no mechanical	sample h	nas be	en left in a normal temp	perature and normal					
	damage.	humidity	for 1 h	our.						
Low temperature	∆L/Lo≦±5%		he sample shall be left for 500 hours in an atmosphere with							
storage		· ·	temperature of -40±3°C.							
	There shall be	Upon co	pon completion of the test, the measurement shall be made							
	no mechanical	after the	ter the sample has been left in a normal temperature and							
	damage.	normal h	rmal humidity for 1 hour.							
Change of	△L/Lo≦±5%	The sam	he sample shall be subject to 5 continuos cycles, such as shown							
temperature		in the tal	n the table 2 below and then it shall be subjected to standard							
	There shall be	stmosph	stmospheric conditions for 1 hour, after which measurement							
	no other dama-	shall be	shall be made.							
	ge of problems									
		table 2								
			Temperature Duration							
			1	-40 ±3 ℃	10 min.					
				(Themostat No.1)						
			2	5 sec. or less						
				No. 1→No. 2						
			3	30 min.						
			4	Standard	5 sec. or less					
		atmospheric No.2→No.1								
Moisuture storage	△L/Lo≦±5%	The sample shall be left for 500 hours in a temperature of								
		40±2°C a	and a h	numidity(RH) of 90 \sim 95 $^\circ$	%.					
	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	/ more than 1 hour.						
Test conditions :	1	'								

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

文件编号	SRD-WI-13617	版本号	^	页码	11/11
File Number	SKD W1 13017	Version Number	11	page	11/11

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.