

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.4010.BYD系列	

制造厂商			
Manufa	cturer		
拟 制			
Draft	法电子有個		
审核	如如果		
Check	星专用衛妃团		
日期			
Date	2024-09-20		

客户承认印章
Approval Signet
日期 Date

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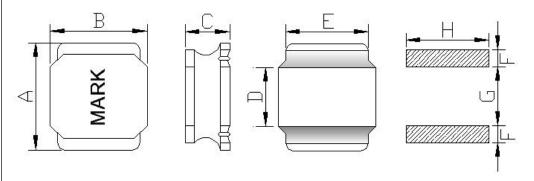
修改履历表

Modify Resume

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修改日期	修改明细	修改后版本号
Date modified	Modify Details	Version No.
2021-6-9	文件新制订 File formulation	A
2024-04-23	增加SNR. 4010. BYD470MT00特性。	A1
2024-09-20	系列感量更新	A2

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1、外形尺寸 Dimension:



单位Unit: mm

A	4.00±0.2
В	4.00±0.2
C	1.1 Max
D	2.1Ref.
Е	3.3Тур.
F	0.95Typ.
G	2.1Ref.
Н	3.3Тур.

2、产品品名构成 Product Spec. Model

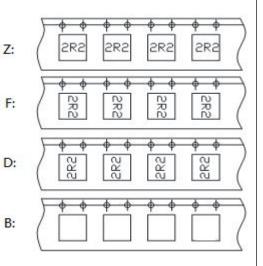
<u>SNR 4010 B Y D 100 M T 00</u> a b c d e f g h i

- 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

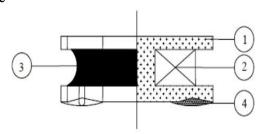
(1R0:1.0uH; 100: 10uH; 101:100uH)

- 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)

► 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

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.4010.BYD1R0NT00	1.0	100/1	0.078	2.50	2.40
SNR.4010.BYD2R2MT00	2.2	100/1	0.143	1.20	1.40
SNR.4010.BYD3R3MT00	3.3	100/1	0.169	1.10	1.30
SNR.4010.BYD4R7MT00	4.7	100/1	0.230	0.95	1.20
SNR.4010.BYD6R8MT00	6.8	100/1	0.338	0.80	1.00
SNR.4010.BYD100MT00	10	100/1	0.529	0.62	0.75
SNR.4010.BYD150MT00	15	100/1	0.884	0.54	0.60
SNR.4010.BYD220MT00	22	100/1	1.040	0.45	0.50
SNR.4010.BYD330MT00	33	100/1	1.380	0.43	0.35
SNR.4010.BYD470MT00	47	100/1	1.950	0.40	0.32

※公差Tolerance: N:±30%、M:±20%、K:±10%.

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

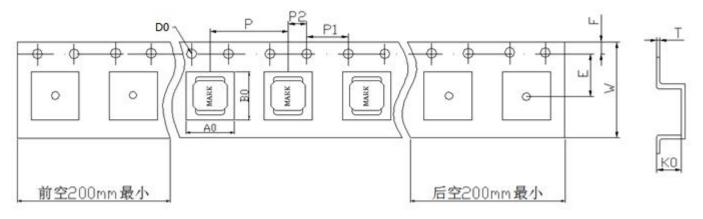
※储存温度Storage termperature rang: -40 $^{\circ}$ to +125 $^{\circ}$

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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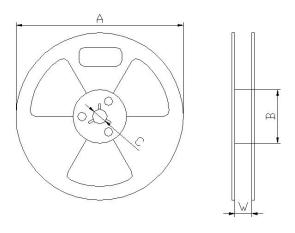
6、产品包装 Packaging

1) 载带包装示意图 Tape packing diagram



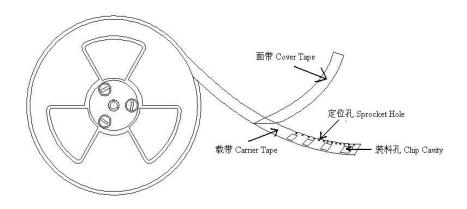
ITEM	W	A0	В0	K0	P	Е	F	D0	P1	P2	Т
DIM	12.00	4.30	4.30	1.20	8.00	5.50	1.75	1.50	4.00	2.00	0.30
TOLE	±0.3	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	+0.1	±0.1	±0.1	±0.05

2)卷盘包装示意图 Tape packing diagram



Α	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

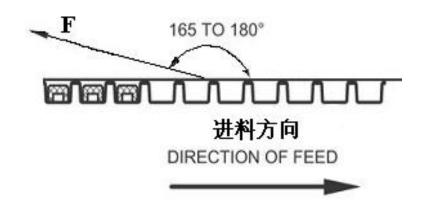


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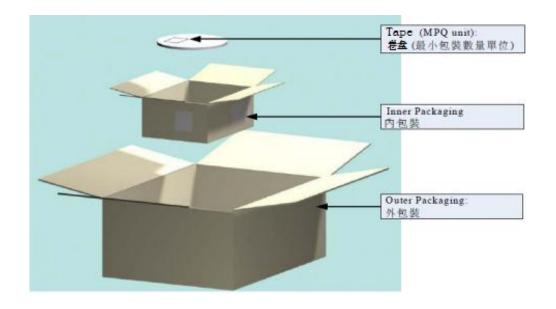
4)剥离强度要求Peeling required

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)	4500	13"
内盒 (Inner box)	18000	340mm*340mm*65mm
外箱 (Out box)	54000	360mm*360mm*235mm

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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 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.

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MECHANICAL								
TESTITEM		SPECIFICATION						
Resistance to	There shall be	Tempe	erature profile of re	eflow soldering				
Soldering heat	no damage or							
(reflow soldering)	problems.	The specimen shall be condition shown in the atom the specimen shall be for 1 hour, after which the	Pre-heating 2 min passed through the above profile for 1 is stored at standard	e reflow oven with time.	the			
ELECTRICAL								
TESTITEM	SPECIFICATION		TEST DETAI	LS				
Insulation	There shall be no other	DC 100V voltage shall b	e applied across	this sample of top				
resistance	damage or problems.	surface and the termina	l.					
		The insulation resistanc	e shall be more th	nan 1 × 10 ⁸ Ω.				
Dielectric	There shall be	AC 100V voltage shall b	ne applied for 1 mi	nute 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 perforr	ned after the sam	ple has stabilized	in			
characteristics	0~2000 ppm/°C							
		calculated based on the value applicable in a normal						
		temperature and narmal	humidity shall be	: △L/L 20°C ≦± 10) %.			

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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	Jpon completion of the measurement shall be made after the						
	no mechanical	sample has been left in a normal temperature and normal humidity for 1 hour.							
	damage.								
Low temperature	△L/Lo≦±5%	The sam	ıple sh	all be left for 500 hours in	an atmosphere with				
storage		a tempe	rature 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	l temperature and				
	damage.	normal h	umidit	y for 1 hour.					
Change of	△L/Lo≦±5%	The sam	ple sh	all be subject to 5 continue	os cycles, such as shown				
temperature		in the ta	ble 2 b	elow and then it shall be s	subjected to standard				
	There shall be	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	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				
		The sample shall be left for 500 hours in a temperature of							
Moisuture storage	△L/Lo≦±5%	The sam	ple sh	all be left for 500 hours in a	a temperature or				
Moisuture storage	△L/Lo≦±5%		•	all be left for 500 hours in a numidity(RH) of 90 \sim 95%.	a temperature or				
Moisuture storage	△L/Lo≦±5% There shall be	40±2°C a	and a h		·				
Moisuture storage		40±2°C a	and a h	numidity(RH) of $90\sim95\%$.	ement shall be made				

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: $-10 \sim +40^{\circ}$ C, $30\sim70\%$ 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.