

產品規格書

Market Requirement Document

	CUST	OMER:				
	PRO	声表面谐振器				
	M	ODEL:	R	315M		
	PARAM	SMI	03030mm			
	DATE:					
	一 本	加格法安同。	//\			
	•	沒後請寄回·	~ .			
PLEASE RE	TURN ONE CO	PY TO US SO TH	IAT WE	GET YOUR	APPROVAL	
承認結果	客戶簽名	客戶承認章	Í	日期	備注	
CONCLUSION	SIGNATURE	STAMP		DATE	REMARK	
合格						
ACCEPT						
不合格						
REJECT						
制表: 钟先生			审核:			
_					(公章)	
尊敬的客户:请您抽出	4一点时间,在7-10个	丁作日内将承认书问答	. 若未回答	以视默认 谢谢?	今作!	

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ZX315M SMD-3030mm

This specification shall cover the characteristics of 1-port SAW resonator with R315M used for remote-control security.

2. Electrical Specification

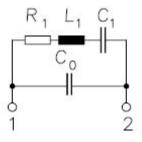
2.1 Maximum Rating

DC Voltage VDC	10V
AC Voltage Vpp	10V 50Hz/60Hz
Operation temperature	-40°C to +85°C
Storage temperature	-45°C to +85°C
Source Power	0dBm

2.2 Electronic Characteristics

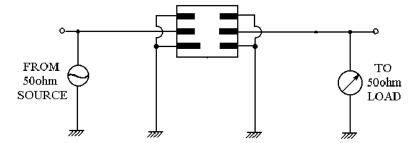
Item			Unites	Minimum	Typical	Maximum
Center Freque	ency		MHz	314.925	315.000	315.075
Insertion Loss	5		dB		1.4	1.9
Quality Facto	•	Unload Q		8000	12800	
Quality Factor		50Ω Loaded Q		1000	2000	
Temperature	Turnover Temperature		$^{\circ}\!\mathbb{C}$	10	25	40
Stability	Stability Freq.temp.Coefficient		ppm/℃		0.032	
Frequency Aging			ppm/yr		<±10	
DC. Insulation	nce	ΜΩ	1.0			
RF	Motion	al Resistance R1	Ω		17.6	
Equivalent	Motion	al Inductance L1	μН		118	
RLC Model	al Capacitance C1	fF		2.16		
Transducer St	acitance C0	pF		2.13		

2.3 Equivalent LC Model

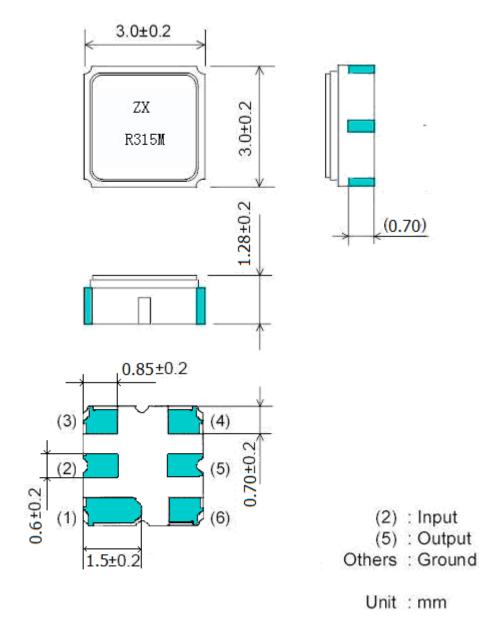


3. Test Circuit

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4. Dimension



1. ZX: Manufacture's logo 2. R315M: Model code

5. Environment Characteristic

5-1 Thermal Shock:

The components shall remain within the electrical specifications after being kept at the condition of heat cycle conditions: TA=-40 °C±3 °C, TB=85 °C±2 °C, t1=t2=30min, switch time \leq 3min& cycle time : 100 times, recovery time: 2h±0.5h.

5-2 Resistance to solder heat

Submerge the device terminals into the solder bath at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for 10 ± 1 sec. Then release the device into the room conditions for 4 hours. It shall meet the specifications in 2.2.

5-3 Solder ability

Submerge the device terminals into the solder bath at 245° C $\pm 5^{\circ}$ C for 5s, More than 95% area of the soldering pad must be covered with new solder. It shall meet the specifications in 2.2

5-4 The Temperature Storage:

- 5.3.1 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the 85° C±2°C for $96h\pm4h$, recovery time : $2h\pm0.5h$.
- 5.3.2 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for 96h±4h, recovery time : 2h±0.5h.

5-5 Humidity test:

The components shall remain within the electrical specifications after being kept at the condition of ambient temperature $60^{\circ}\text{C}\pm2^{\circ}\text{C}$, and $90\sim96\%$ RH for $96\text{h}\pm4\text{h}$.

5-6 Mechanical shock

Drop the device randomly onto the concrete floor from the height of 1m for 3 times. The resonator shall fulfill the specifications in 2.2.

5-7 Vibration

Subject the device to the vibration for 2 hour each in X, Y and Z axes with the amplitude of 1.5 mm at 10 to 55 Hz. The resonator shall fulfill the specifications in 2.2.

6. Remark

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration &destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

6.3 Soldering

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Only leads of component may be soldered. Please avoid soldering another part of component.

7. Packing

7.1 Dimensions

(1) Carrier Tape: Figure 1

(2) Reel: Figure 2

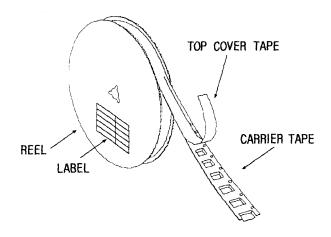
(3) The product shall be packed properly not to be damaged during transportation and storage.

7.2 Reeling Quantity

1000 pcs/reel 7" 3000 pcs/reel 13"

7.3 Taping Structure

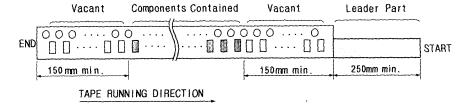
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.

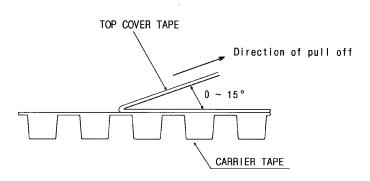


8. Tape Specifications

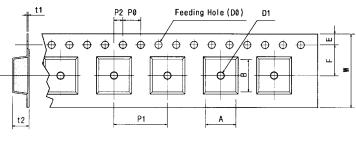
- 8.1 Tensile Strength of Carrier Tape: 4.4N/mm width
- 8.2 Top Cover Tape Adhesion (See the below figure)

(1) pull off angle: 0~15° (2) speed: 300mm/min.

(3) force: 20~70g



[Figure 1] Carrier Tape Dimensions

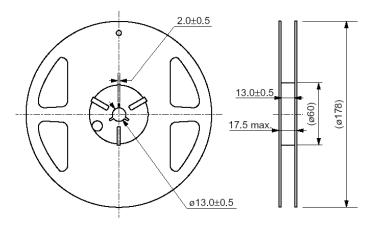


Tape Running Direction

[Unit: mm]

W	F	E	P0	P1	P2	D0	D1	t1	t2	A	В
12.0	5.5	1.75	4.0	4.0	2.0	Ø1.5	Ø1.0	0.3	1.25	3.3±	3.3 ±
± 0.3	± 0.05	± 0.1	± 0.1	± 0.1	± 0.05	± 0.1	± 0.25	± 0.05	±0.1	0.1	0.1

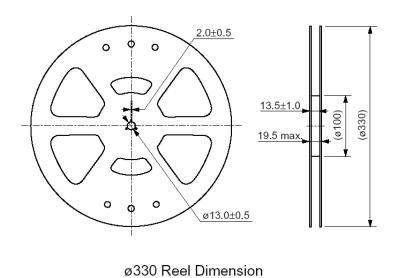
[Figure 2] Reel Dimensions





(in mm)

(in mm)



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