

产品确认书

Product Confirmation

CUSTOMER:

Product :

Frequency:

Model:

DATE:

声表面谐振器

R433M

SMD3030mm

承认后请寄回一份

PLS SEND BACK ONE COPY TO US AFTER YOUR APPROVAL

承认結果	客戶签名	客戶承认章	日期	备注
CONCLUSION	SIGNATURE	STAMP	DATE	REMARK
合格 ACCEPT				
不合格				
REJECT				

制表: 刘小姐

审核:

(公章)

尊敬的客户:请您抽出一点时间,在7-10个工作日内将承认书回签,若未回签,以视默认.谢谢合作!

1. Scope

This specification shall cover the characteristics of 1-port SAW resonator with R433.92 used for remote-control security.

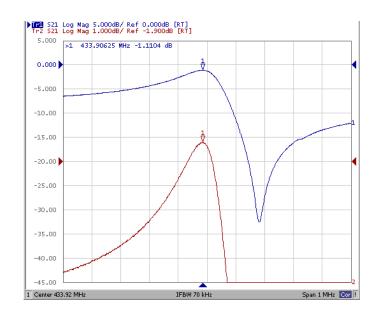
2. Electrical Specification

2.1 Maximum Rating

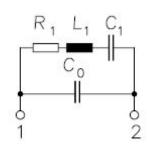
DC Voltage VDC	10V
AC Voltage Vpp	10V 50Hz/60Hz
Operation temperature	-40°℃ to +85°℃
Storage temperature	-45°℃ to +85°℃
Source Power	0dBm

2.2 Electronic Characteristics

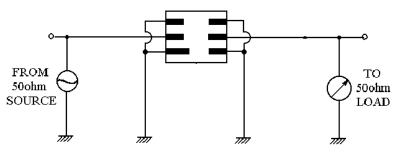
Item			Unites	Minimum	Typical	Maximum	
Center Frequency			MHz	433.845	433.92	433.995	
Insertion Loss			dB		1.4	1.9	
Quality FactorUnload Q50Ω Loade		Unload Q		8000	12800		
		50Ω Loaded Q		1000	2000		
Temperature	Turnov	er Temperature	°C	10	25	40	
Stability	tability Freq.temp.Coefficient				0.032		
Frequency Aging			ppm/yr		<±10		
DC. Insulation Resistance			MΩ	1.0			
RF	Motion	al Resistance R1	Ω		17	26	
Equivalent	Motion	al Inductance L1	μH		70.743		
RLC Model	RLC Model Motional Capacitance C1				1.9018		
Transducer Static Capacitance C0			pF		2.0		



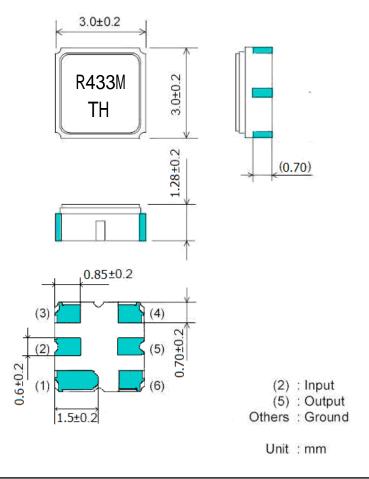
2.3 Equivalent LC Model



3. Test Circuit



4. Dimension



1. T H: Manufacture's logo 2. 433.92: Model code

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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 $260^{\circ}C \pm 5^{\circ}C$ 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 $85^{\circ}C \pm 2^{\circ}C$ for 96h±4h, recovery time : 2h±0.5h.

5.3.2 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the $-40^{\circ}C \pm 3^{\circ}C$ 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 $60^{\circ}C \pm 2^{\circ}C$, and $90 \sim 96\%$ RH for $96h \pm 4h$.

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

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

7. Packing

7.1 Dimensions

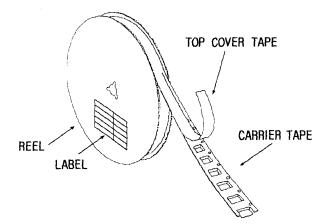
- (1) Carrier Tape: Figure 1
- (2) Reel: Figure 2
- (3) The product shall be packed properly not to be damaged during transportation and storage.

7.2 Reeling Quantity

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

7.3 Taping Structure

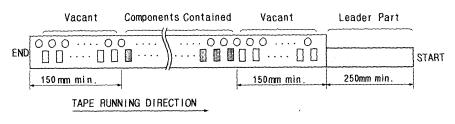
(1) The tape shall be wound around the reel in the direction shown below.



(2) Label

Device Name	
User Product Name	
Quantity	
Lot No.	

(3) Leader part and vacant position specifications.



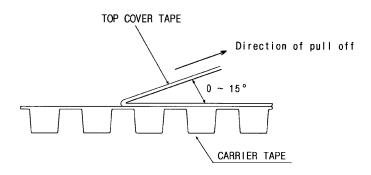
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8. Tape Specifications

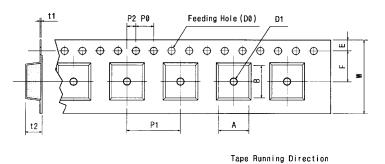
8.1 Tensile Strength of Carrier Tape: 4.4N/mm width

8.2 Top Cover Tape Adhesion (See the below figure)

- (1) pull off angle: $0 \sim 15^{\circ}$
- (2) speed: 300mm/min.
- (3) force: 20~70g



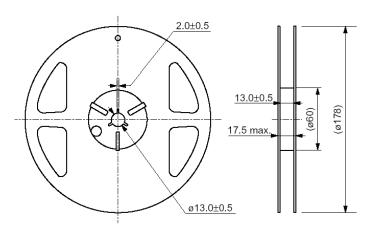
[Figure 1] Carrier Tape Dimensions



[Unit: mm]

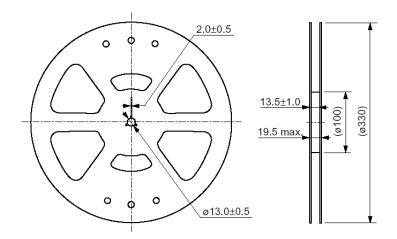
W	F	Е	P0	P1	P2	D0	D1	t1	t2	А	В
12.0	5.5	1.75	4.0	4.0	2.0	Ø1.5	Ø1.0	0.3	1.25	3.3±	3.3±
±0.3	± 0.05	± 0.1	± 0.1	± 0.1	± 0.05	± 0.1	± 0.25	± 0.05	± 0.1	0.1	0.1

[Figure 2] Reel Dimensions



ø178 Reel Dimension

(in mm)



ø330 Reel Dimension

(in mm)