



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 622.31 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0172A

Customer Parts No.: \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/07/21



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## SAW Resonator 622.310 MHz

MODEL NO.: TC0172A

REV. NO.:4

### A. FEATURES:

1. 1-Port Resonator.

### B. MAXIMUM RATING:

1. Input Power Level: 0 dBm

2. DC voltage: 12 V

3. Operating Temperature: -40°C to +85°C

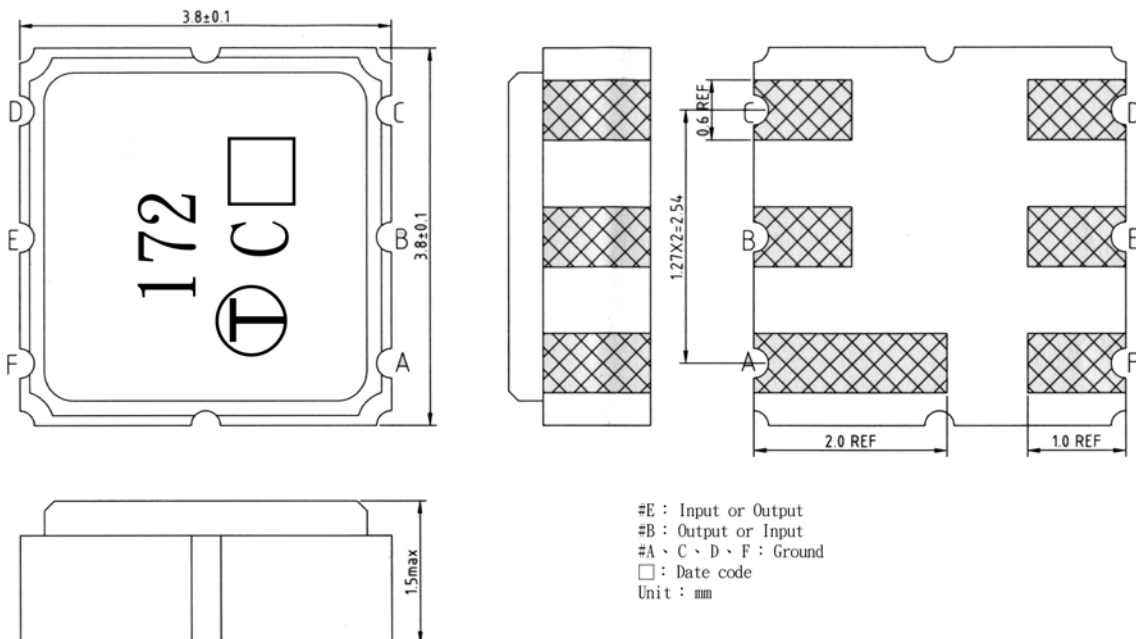
4. Storage Temperature: -40°C to +85°C

### C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	622.280	622.310	622.340
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.0	2.0
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	1.85	-
Motional inductance <b>L1</b>	<b>μH</b>	-	35.38	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	14.19	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	2.99	-
Temp.coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover To	<b>deg.C</b>	10	25	40
Package size		SMD 3.8X3.8X1.2mm		

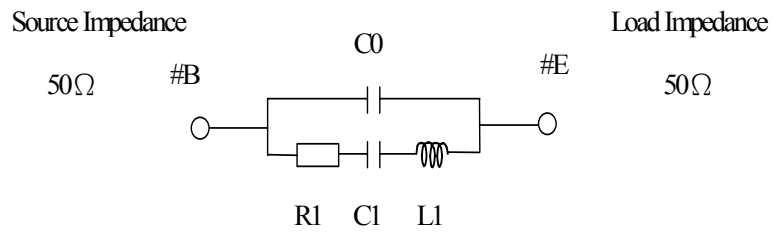
RoHS Compliant  
Lead free  
Lead-free soldering

### D. OUTLINE DRAWING:

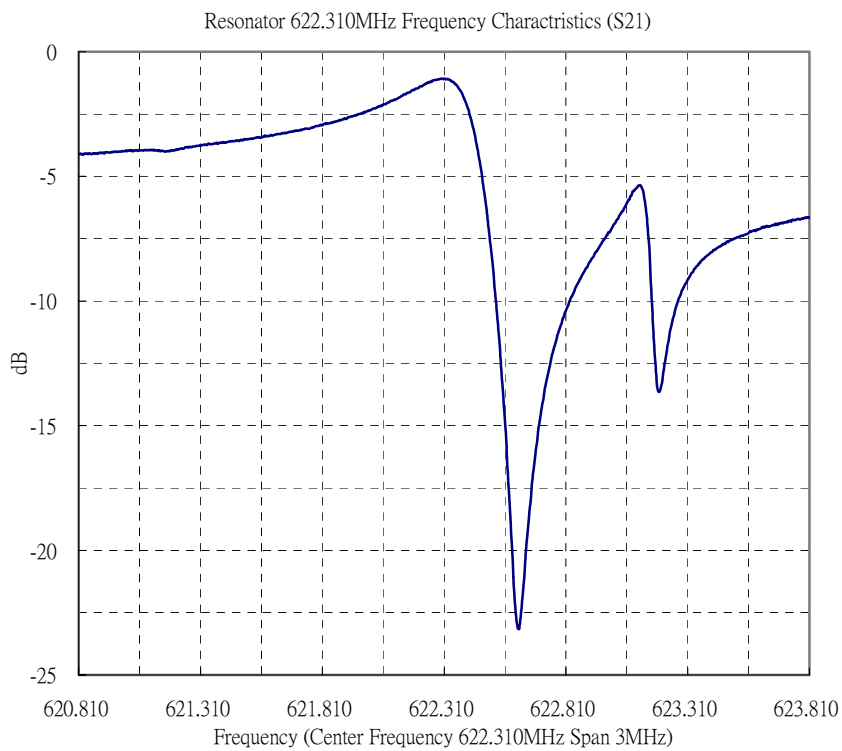


**E. EQUIVALENT CIRCUIT:**

One-Port Resonator:

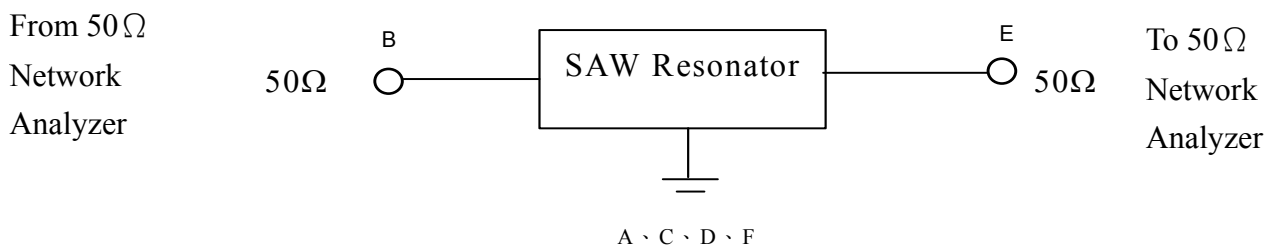


**F. FREQUENCY CHARACTERISTICS:**



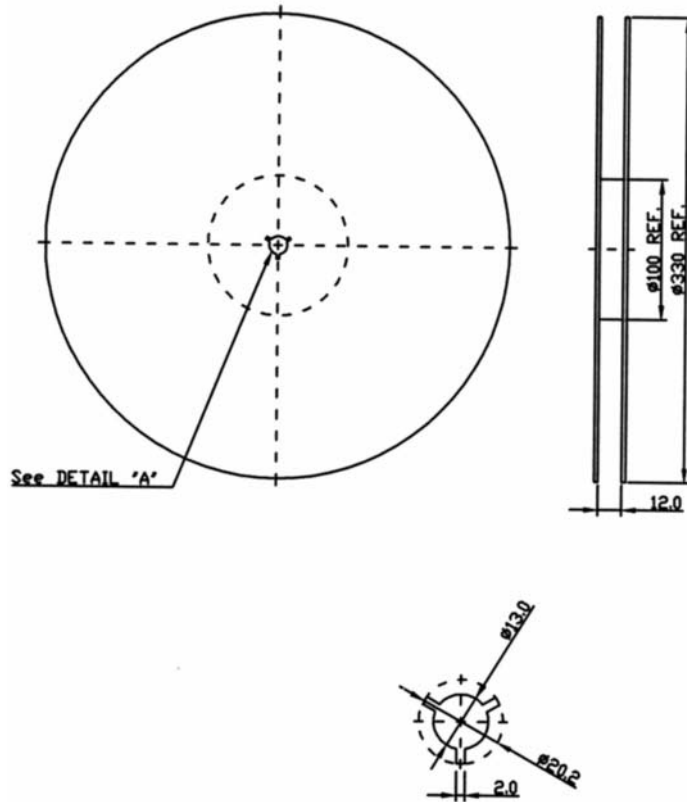
**G. TEST CIRCUIT:**

Network analyzer

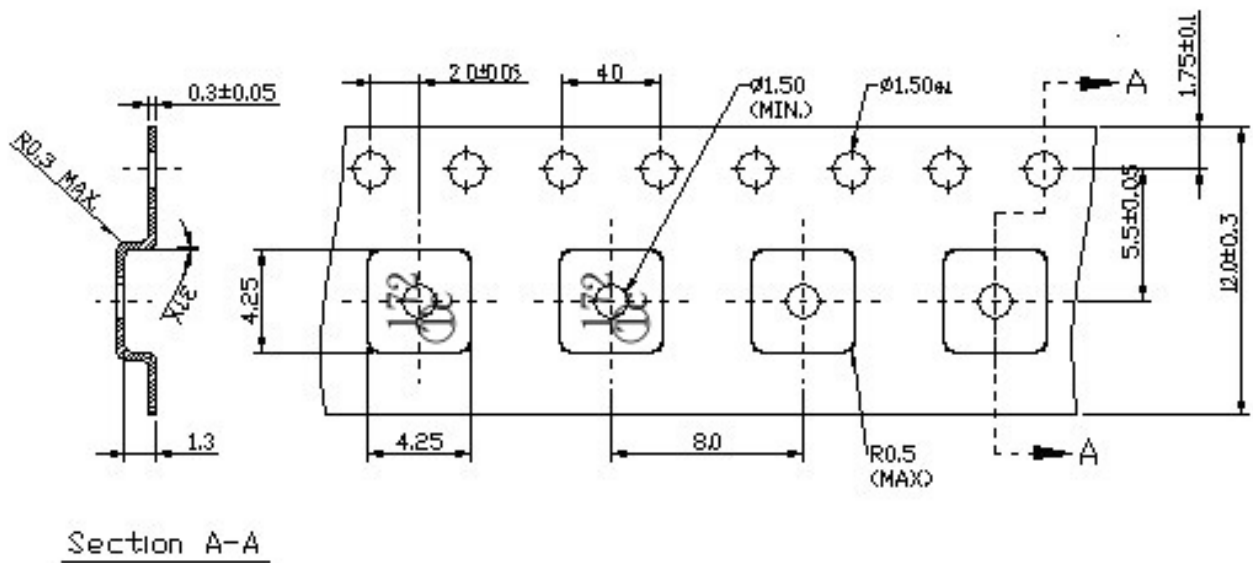


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Section A-A