



# 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 One-Port Resonator 622.080 MHz SMD 3.8X3.8

TST Parts No.: TC622.EC-A

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

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

Checked by: Paul Ni

Approval by: Francis Chen

Date: Sep. 28. 2006



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## SAW Resonator 622 MHz

MODEL NO.: TC622EC-A

REV. NO.:3

### A. FEATURES:

- 1-Port Resonator.

RoHS Compliant  
 Lead free  
 Lead-free soldering

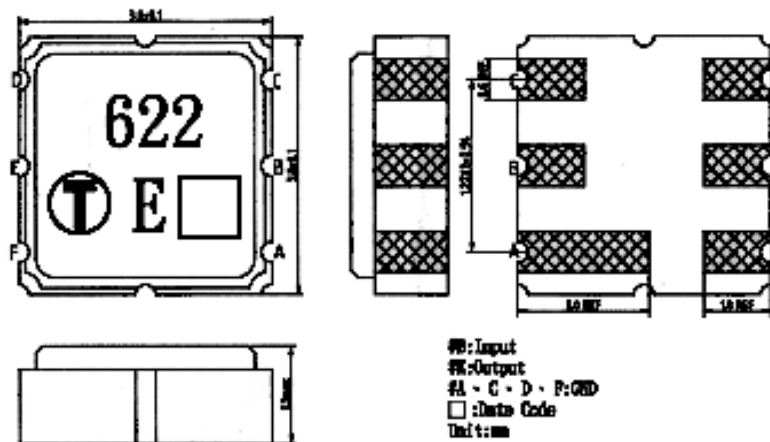
### B. MAXIMUM RATING:

- 1.Power Dissipation: 0 dBm.
- 2.DC voltage: 12 V.
- 3.Storage Temperature: -40 °C to 85 °C.
- 4.Operating Temperature:-40 °C to 85 °C

### C. ELECTRICAL CHARACTERISTICS:

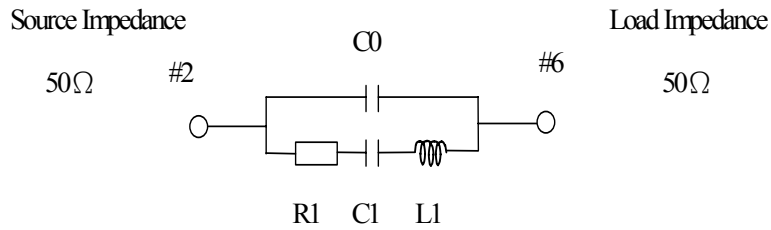
Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	622.055	622.080	622.105
Insertion Loss <b>IL</b>	<b>dB</b>		1.5	2.5
Unloaded Quality factor		6000		
Ageing of Fc	<b>ppm</b>		10	10/year
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>		1.86	
Motional inductance <b>L1</b>	<b>μH</b>		35.21	
Motional resistance <b>R1</b>	<b>Ohm</b>		13.29	
Parallel capacitance <b>Co</b>	<b>pF</b>		3.01	
Temp.coeff.	<b>ppm/c*2</b>		0.032	
Turnover To	<b>deg.C</b>		30	
Package size		3.8x3.8 mm		

### D. OUTLINE DRAWING:

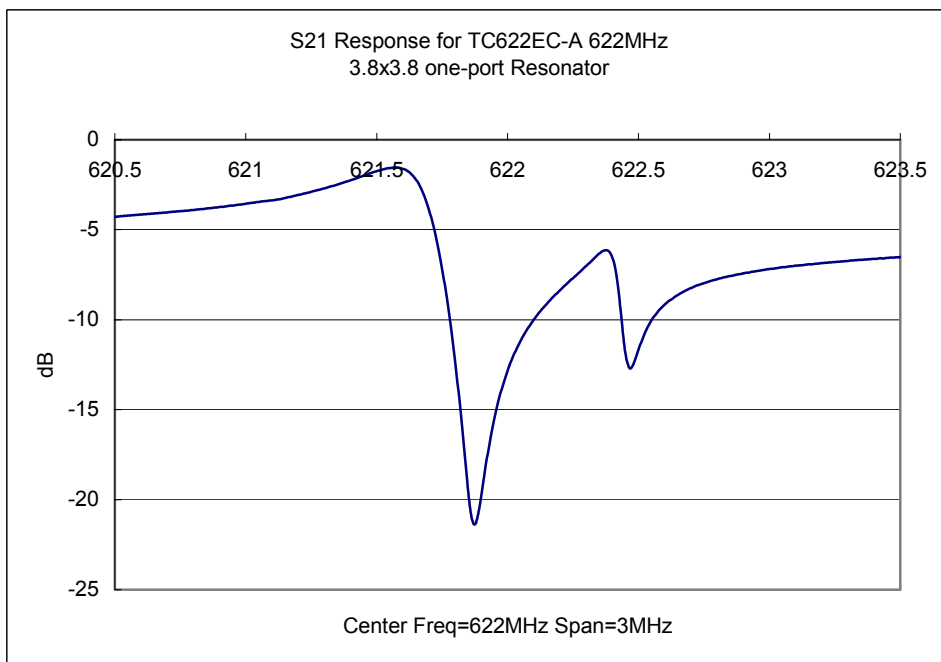


E. EQUIVALENT CIRCUIT:

One-Port Resonator:



F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

Network analyzer

