



# 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 1000 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0306A

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

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

Checked by: Asin Lin

Approval by: Francis Chen

Date: 2005/10/07



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## SAW Resonator 1000 MHz

MODEL NO.: TC0306A

REV. NO.:1

### 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

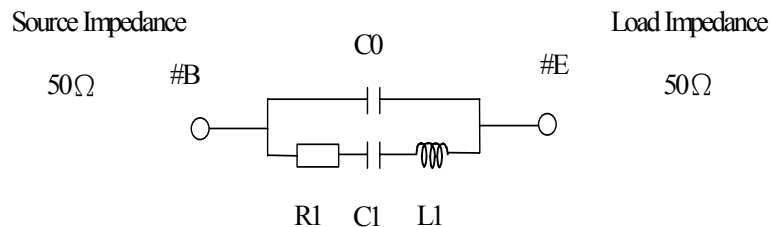
### C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	999.875	1000	1000.125
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.5	2.0
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	0.969	-
Motional inductance <b>L1</b>	<b>μH</b>	-	26.13	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	20.73	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	2.06	-
Temp. coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover <b>To</b>	<b>deg.C</b>	-	25	-
Package size		SMD 3.8X3.8X1.4mm		

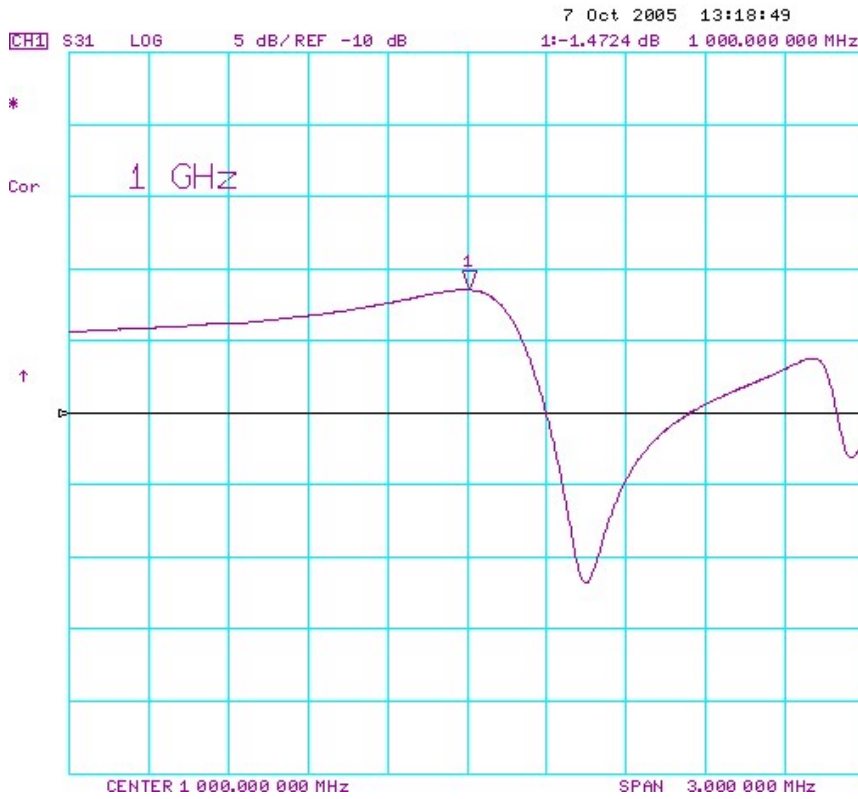
RoHS Compliant  
Lead free  
Lead-free soldering

### D. EQUIVIRENT CIRCUIT:

One-Port Resonator:



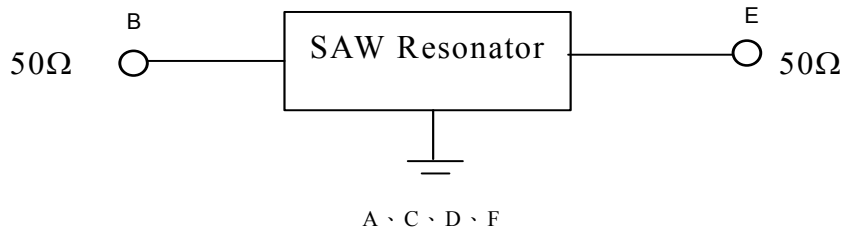
**E. FREQUENCY CHARACTERISTICS:**



**F. TEST CIRCUIT:**

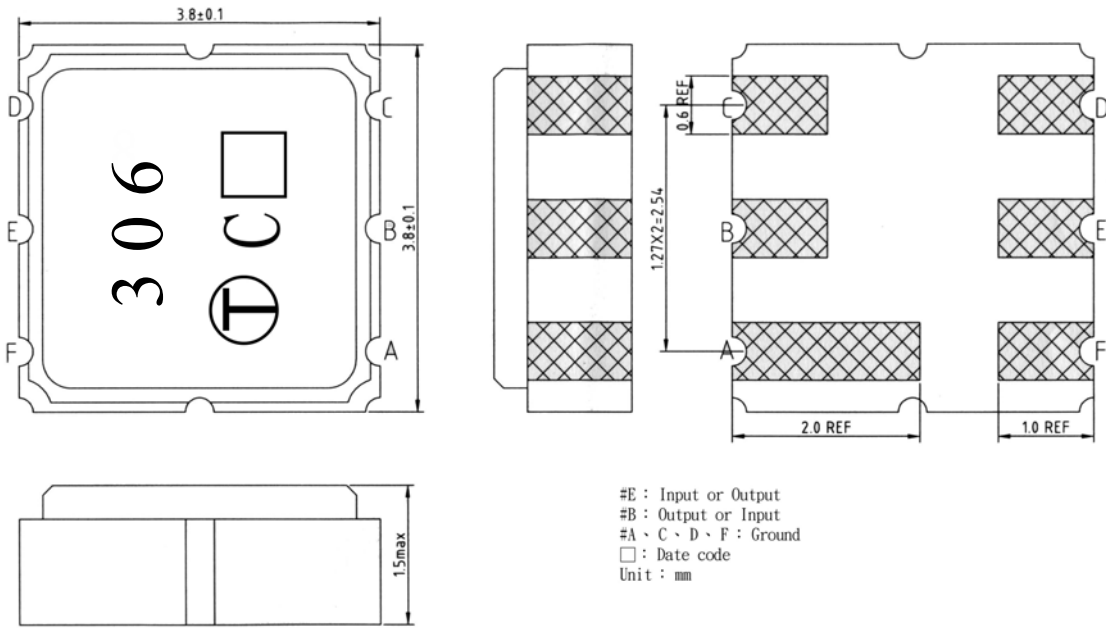
Network analyzer

From 50Ω  
 Network  
 Analyzer



To 50Ω  
 Network  
 Analyzer

G. OUTLINE DRAWING:

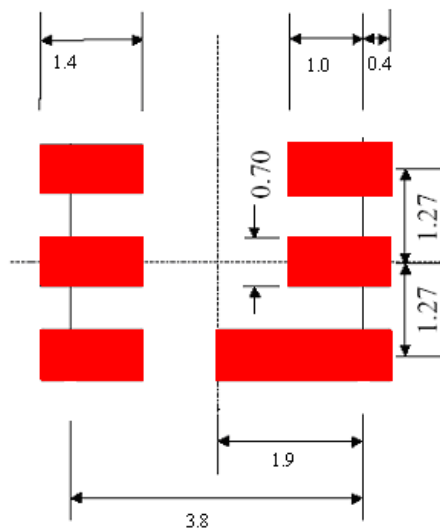


□ Date code: Provided by planer each year

**Product Year Code**

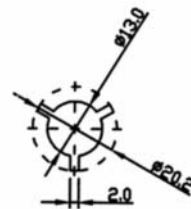
Year	2001 2005	2002 2006	2003 2007	2004 2008
<b>Product Code</b>	<b>C</b>	<b>c</b>	<b>C</b>	<b>c</b>

H. PCB Foot Print:



I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

