



# 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:

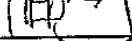
Product Name: SAW Resonator 622.41 MHz SMD 3X3 mm

TST Parts No.: TC0506A

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

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

Checked by: Paul Ni

Approval by: Francis Chen 

Date: 2008/12/17



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## SAW Resonator 622.41 MHz

MODEL NO.: TC0506A

REV. NO.: 1.0

### A. FEATURES:

1. 1-Port Resonator.

### B. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. DC voltage: 3 V

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

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

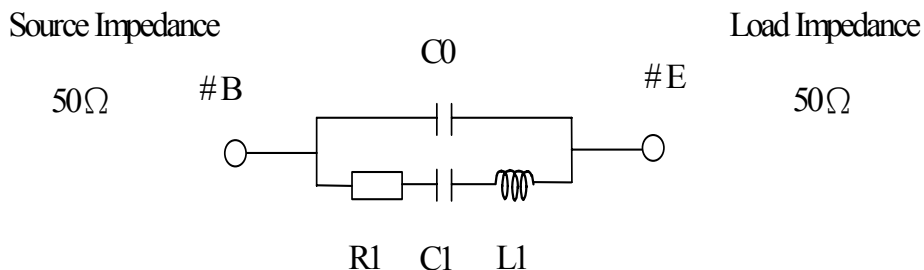
### C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	622.375	622.41	622.445
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.9	2.5
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	1.09	-
Motional inductance <b>L1</b>	<b>μH</b>	-	59.83	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	24.35	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	2.54	-
Temp.coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover To	<b>deg.C</b>	-	25	-
Package size		SMD 3.0X3.0X1.4mm		

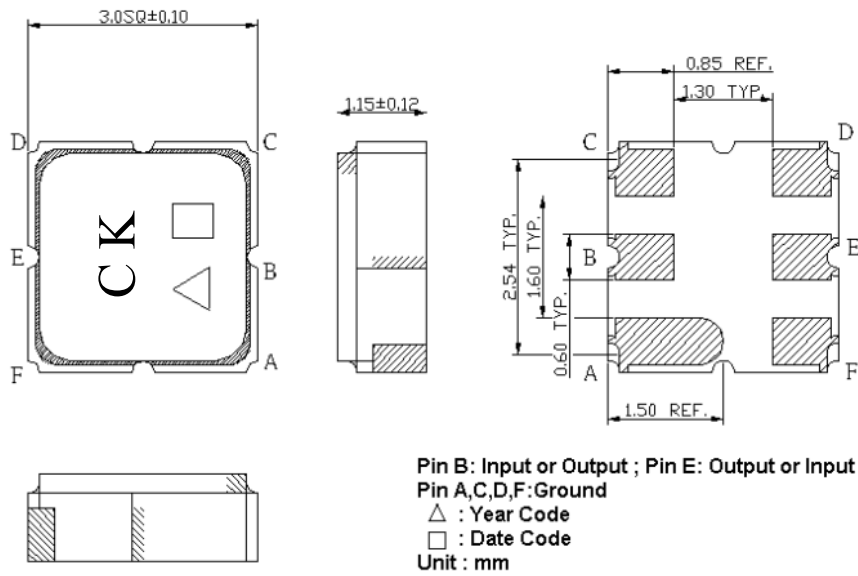
RoHS Compliant  
Lead free  
Lead-free soldering

### D. EQUIVIRENT CIRCUIT:

One-Port Resonator:



**E. OUTLINE DRAWING:**



□ Data code : See the table

<b>WK</b>	01	02	...	26	27	28	...	52
<b>Code</b>	A	B	...	Z	a	b	...	z

△ Year code : See the table

<b>Year</b>	2008	2009	2010	2011	...	2019	2020
<b>Code</b>	8	9	0	1	...	9	0

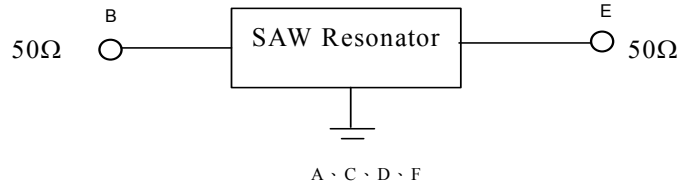
**F. FREQUENCY CHARACTERISTICS**



G. TEST CIRCUIT:

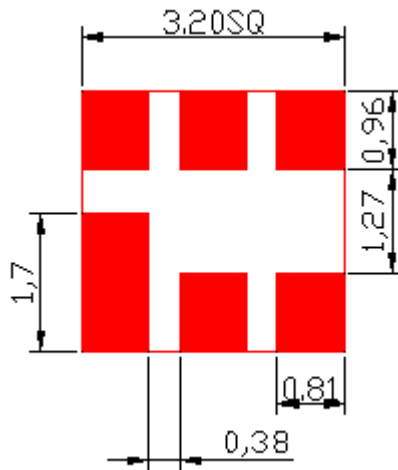
Network analyzer

From 50Ω  
Network  
Analyzer



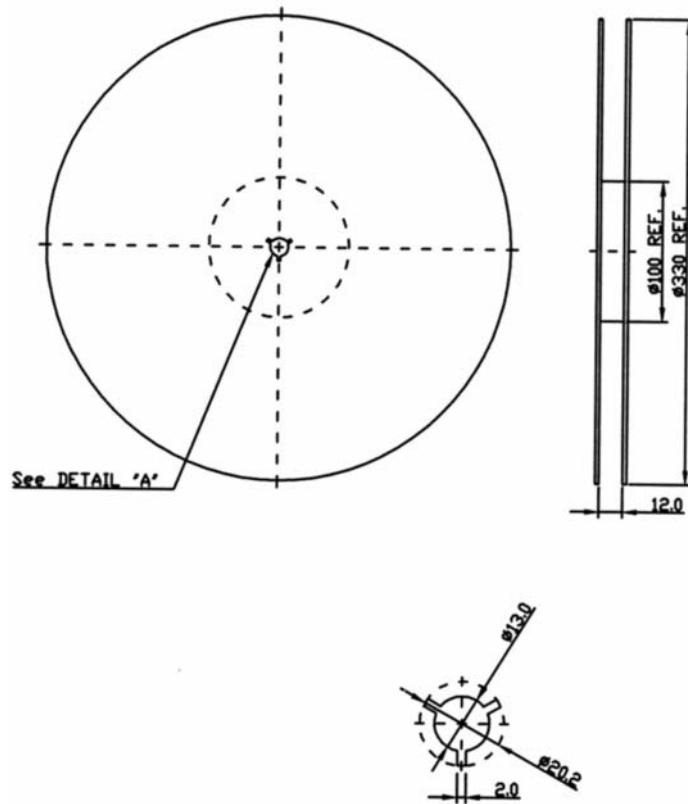
To 50Ω  
Network  
Analyzer

H. LAND PATTERN:

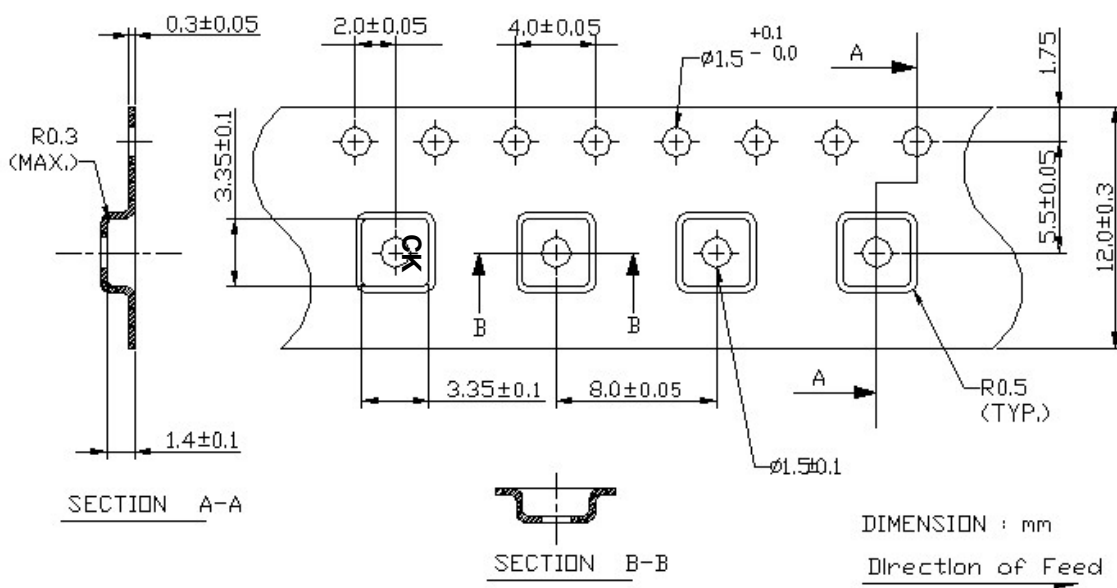


I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



**J. RECOMMENDED REFLOW PROFILE:**

