



# 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 446 MHz SMD 5X5 mm

TST Parts No.: TC0504A

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

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

Checked by: Paul Ni

Approval by: Francis Chen 

Date: 2008/9/12



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## SAW Resonator 446 MHz

MODEL NO.: TC0504A

REV. NO.: 1.0

### A. FEATURES:

- 1-Port Resonator.

### B. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

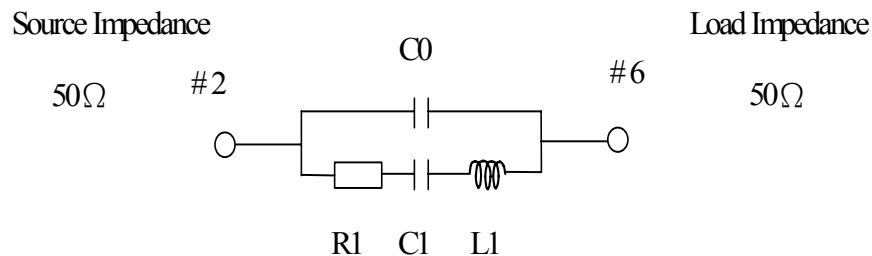
### C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	445.925	446	446.075
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.35	2.0
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	1.54	-
Motional inductance <b>L1</b>	<b>μH</b>	-	82.59	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	15.72	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	3.36	-
Temp.coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover To	<b>deg.C</b>	-	25	-
Package size		SMD 5.0X5.0X1.4mm		

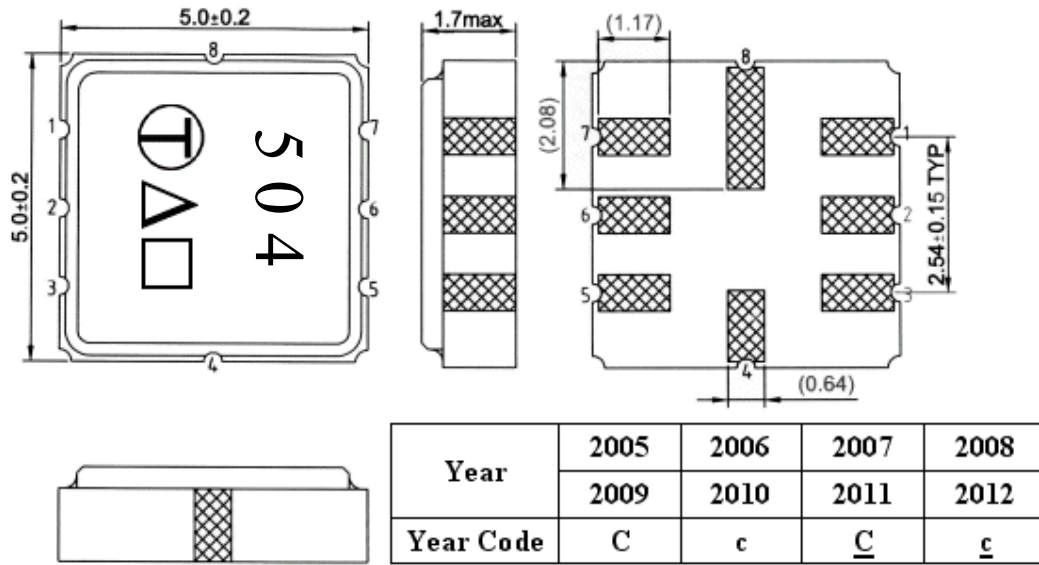
RoHS Compliant  
Lead free  
Lead-free soldering

### D. EQUIVIRENT CIRCUIT:

One-Port Resonator:



E. OUTLINE DRAWING:



#2 : Input or Output

#6 : Output or Input

#4、8 : Case Ground

#1、3、5、7 : Ground

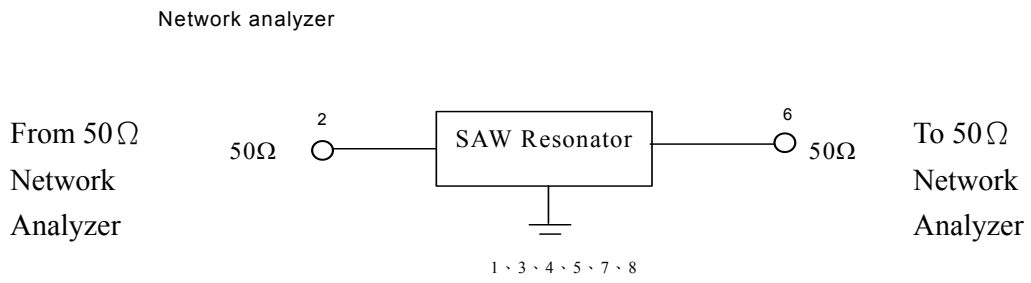
Δ : Year Code

□ : Data Code(Follow the table provided by planer each year )

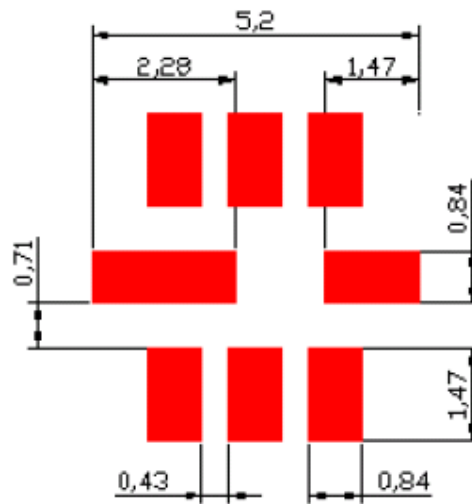
F. FREQUENCY CHARACTERISTICS



G. TEST CIRCUIT:

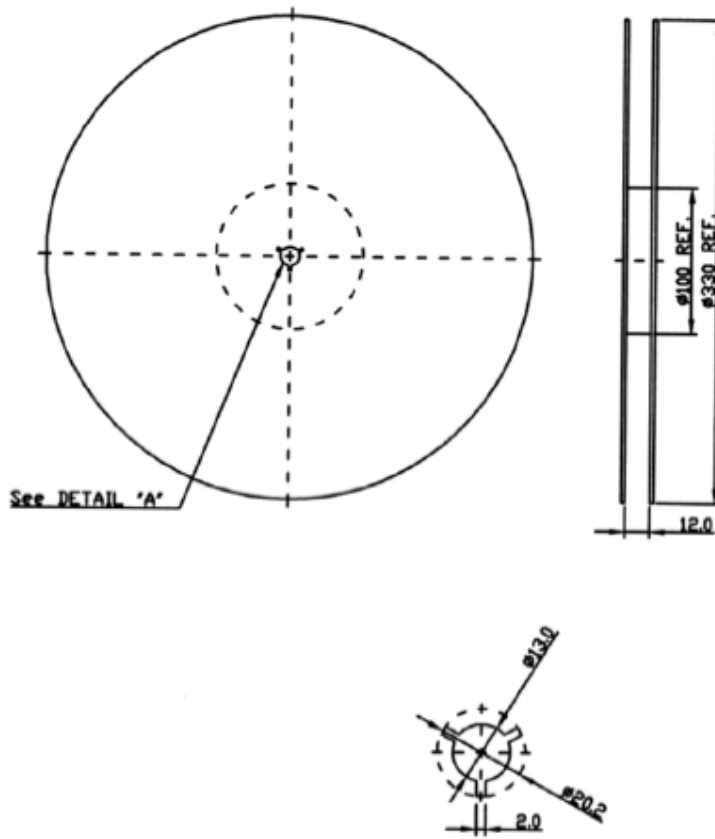


H. LAND PATTERN:

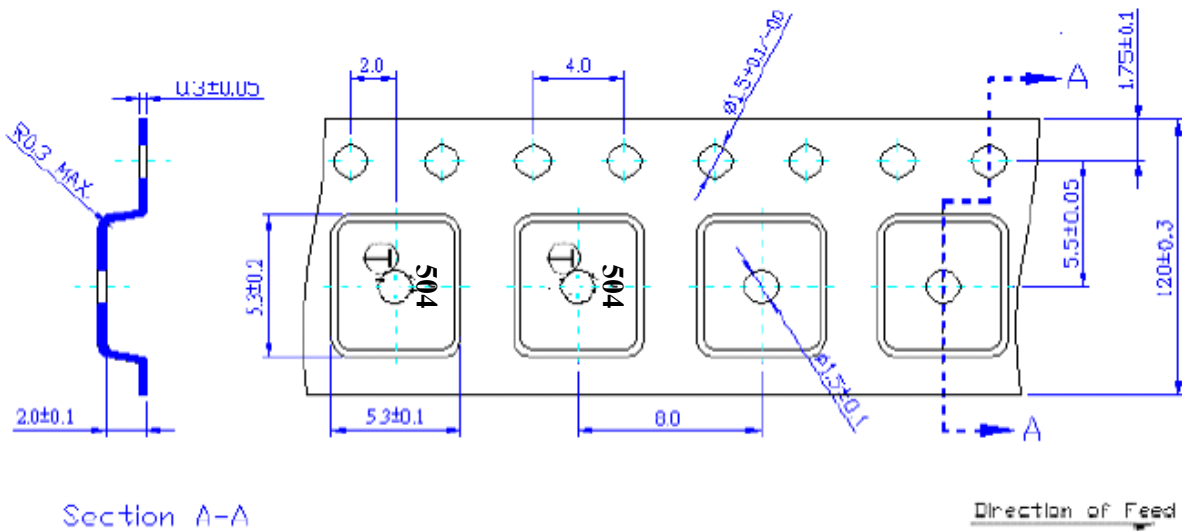


I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



J. RECOMMENDED REFLOW PROFILE:

