

# TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales@mail.taisaw.com](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Product Specifications Approval Sheet

Product Description: SAW Resonator 433.92 MHz SMD 5.0X3.5 mm

TST Part No.: TC0269A

Customer Part No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Paul Ni *Paul*

Approved by: Francis Chen *Francis Chen*

Date: 2009/12/29

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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## SAW Resonator 433.92 MHz

MODEL NO.: TC0269A

REV. NO.:2

### 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:

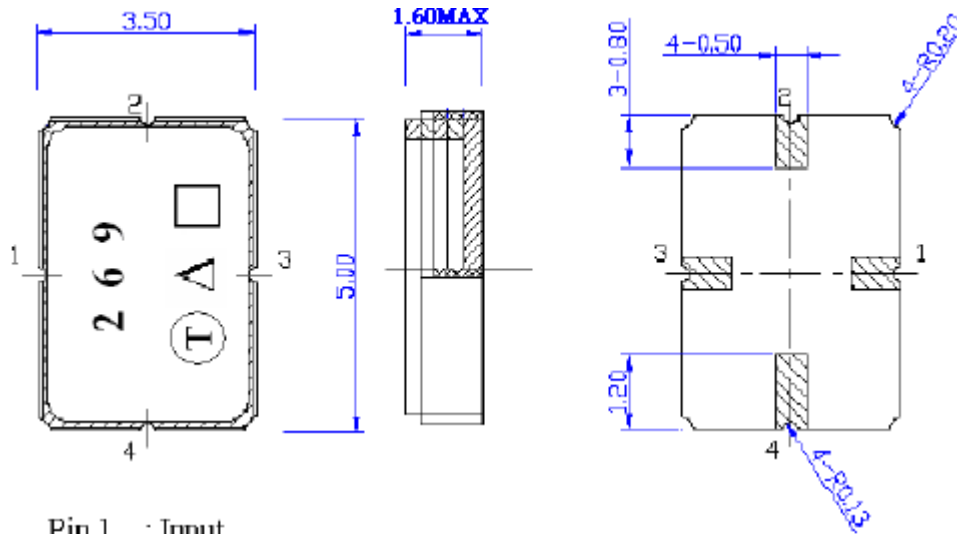
Reference Temperature  $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fc</b>	<b>MHz</b>	433.845	433.920	433.995
Insertion Loss <b>IL</b>	<b>dB</b>	-	1.2	1.7
Ageing of fc	<b>ppm/yr</b>	-	-	$\pm 10$
Equivalent Circuit Model				
Motional capacitance <b>C1</b>	<b>fF</b>	-	1.79	-
Motional inductance <b>L1</b>	$\mu\text{H}$	-	75.72	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	14.3	23
Parallel capacitance <b>Co</b>	<b>pF</b>	-	3.2	-
Frequency Temperature coefficient ( $TC_f$ )	<b>ppm/c*2</b>	-	0.032	-
Turnover $T_o$	<b>deg.C</b>	5	15	25

Temperature dependence of fc:  $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

RoHS Compliant  
Lead free  
Lead-free soldering

**D. OUTLINE DRAWING:**



Pin 1 : Input  
 Pin 3 : Output  
 Pin 2,4 : Ground

Year	2007 2009	2008 2010
Year Code	C	c

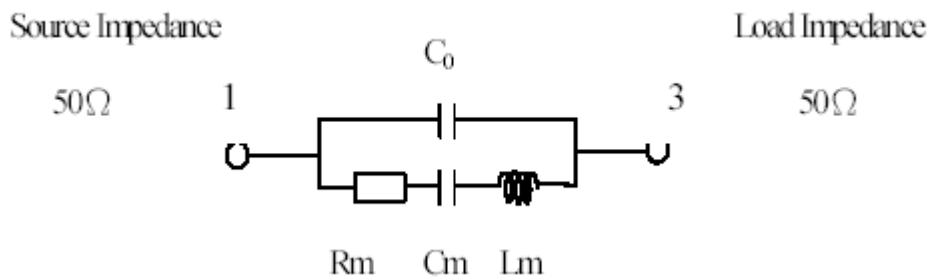
△ : Year Code

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

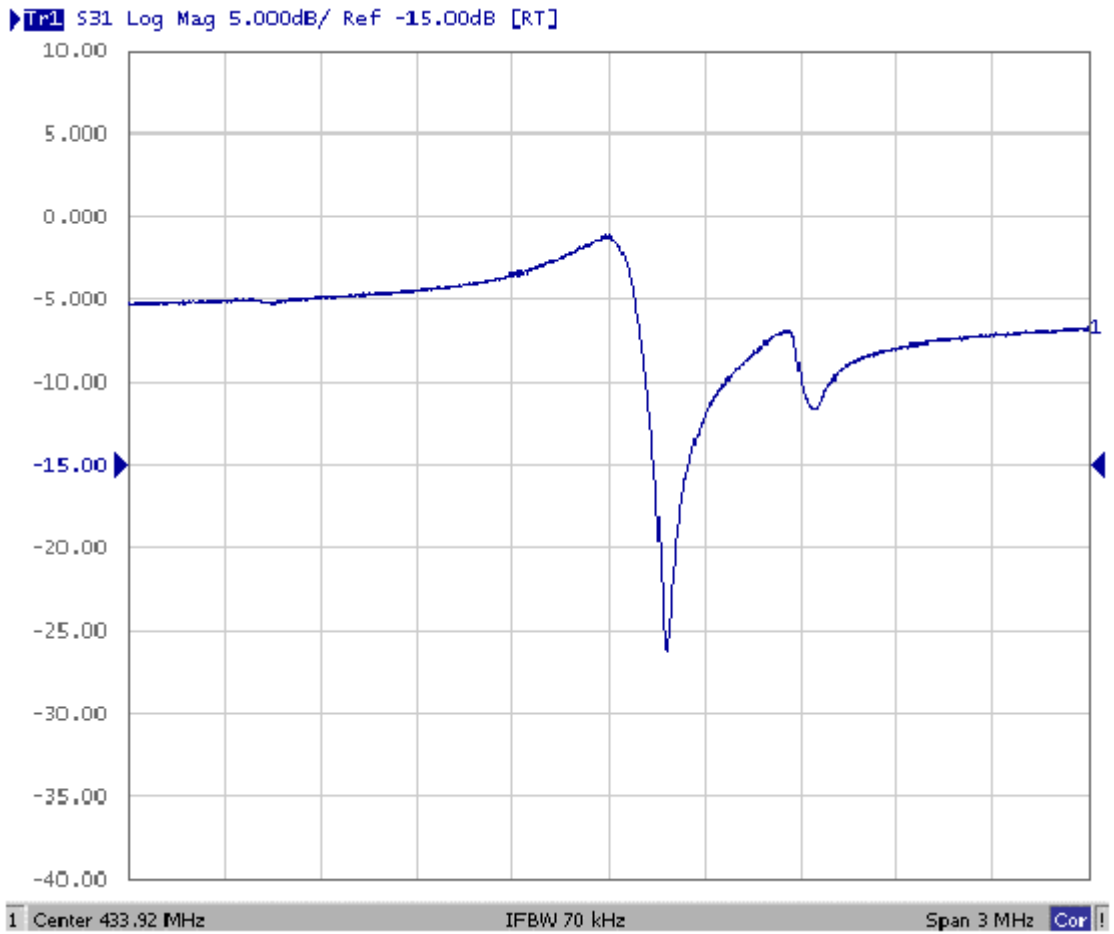
WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

**E. EQUIVRENT CIRCUIT:**

One-Port Resonator:



**F. FREQUENCY CHARACTERISTICS:**



**G. TEST CIRCUIT:**

