



# 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 315.15 MHz TO-39

TST Parts No.: TC0231A

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

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/8/01



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## SAW Resonator 315.15 MHz

MODEL NO.: TC0231A

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

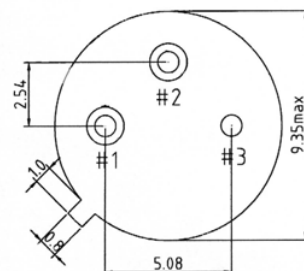
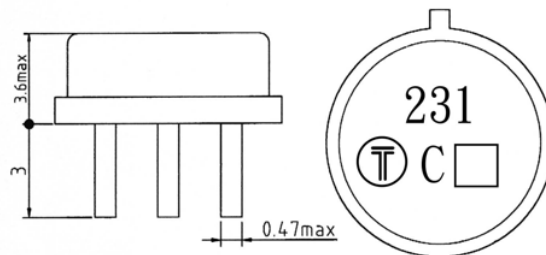
### C. ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency <b>Fr</b>	<b>MHz</b>	315.05	315.15	315.25
Insertion Loss <b>IL</b>	<b>dB</b>	-	0.8	2
Equivalent Elements				
Motional capacitance <b>C1</b>	<b>fF</b>	-	2.85	-
Motional inductance <b>L1</b>	<b>μH</b>	-	89.54	-
Motional resistance <b>R1</b>	<b>Ohm</b>	-	11.79	-
Parallel capacitance <b>Co</b>	<b>pF</b>	-	4.69	-
Temp.coeff.	<b>ppm/c*2</b>	-	0.032	-
Turnover To	<b>deg.C</b>	30	-	60
Package size		TO-39		

RoHS Compliant

Lead-free soldering

### D. OUTLINE DRAWING:



#1 : Input or Output  
 #2 : Output or Input  
 #3 : Ground  
 □ : Date code  
 Unit : mm

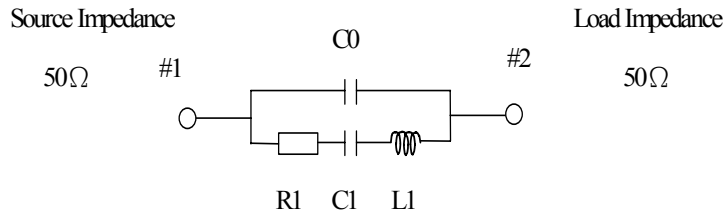
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TST DCC  
Release document

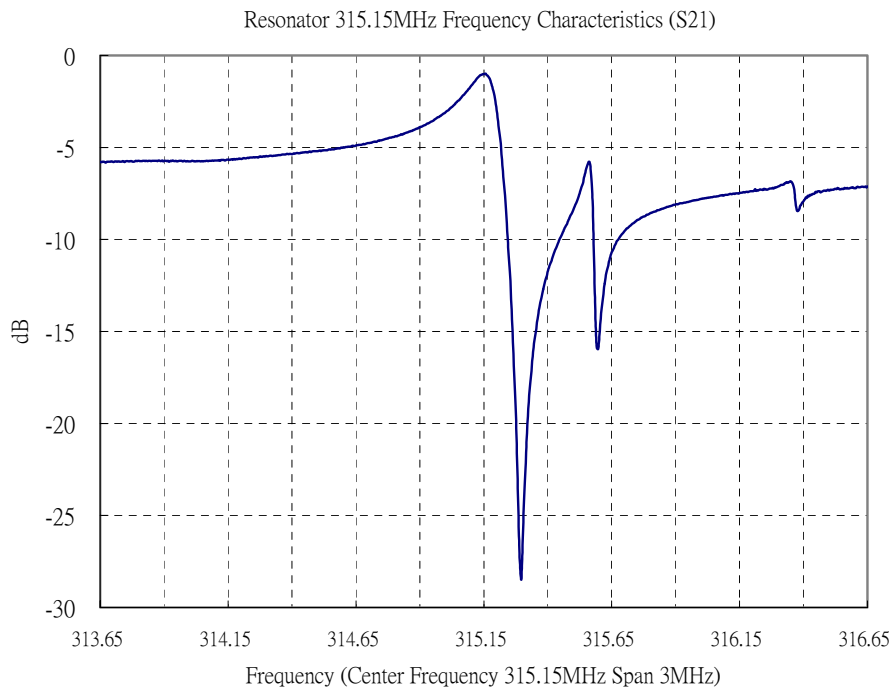
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**E. EQUIVALENT CIRCUIT:**

One-Port Resonator:



**F. FREQUENCY CHARACTERISTICS:**



**G. TEST CIRCUIT:**

Network analyzer

