



# 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: One-Port SAW Resonator 314.95MHz, F11

TST Parts No.: TC314E1-A

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

|                     |
|---------------------|
| Company: _____      |
| Division: _____     |
| Approved by : _____ |
| Date: _____         |

Checked by: Paul Ni

Approval by: Francis Chen

Date: Sep. 28. 2006



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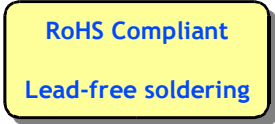
## SAW Resonator 314.95 MHz

MODEL NO.: TC314E1-A

REV. NO.:2

### A. FEATURES:

1. One-Port Resonator.



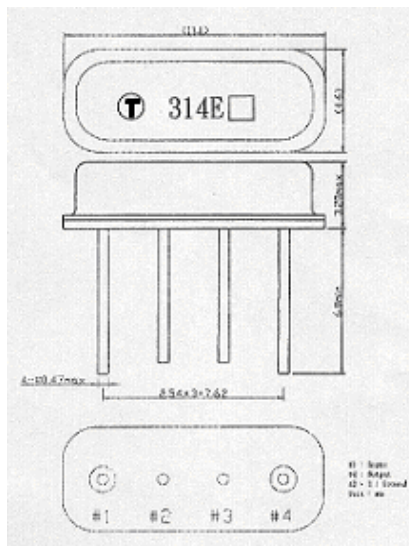
### B. MAXIMUM RATING:

1. Power Dissipation : 0 dBm
2. DC voltage : 12 V
3. Storage Temperature : -40°C to +85°C
4. Operating Temperature : -20°C to +85°C
5. Turnover Temperature : 35°C Typ
6. Frequency Temperature Coefficient : 0.032 ppm/°C<sup>2</sup>

### C. ELECTRICAL CHARACTERISTICS:

| Characteristic              | Units | Minimum | Typical | Maximum |
|-----------------------------|-------|---------|---------|---------|
| Center frequency Fr         | MHz   | 314.875 | -       | 315.025 |
| Insertion Loss IL           | dB    | -       | 1.5     | 2.5     |
| Equivalent Circuit Elements |       |         |         |         |
| Parallel Capacitance Co     | pF    | 3.8     | 4.4     | 5       |
| Motional Resistance R1      | Ohm   | -       | 12      | 29      |
| Motional Inductance L1      | μH    | -       | 75      | -       |
| Motional Capacitance C1     | fF    | -       | 3.3     | -       |

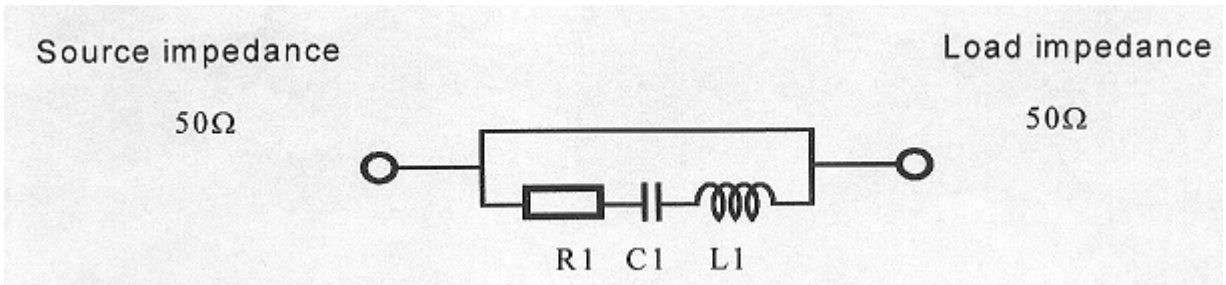
### D. OUTLINE DRAWING:



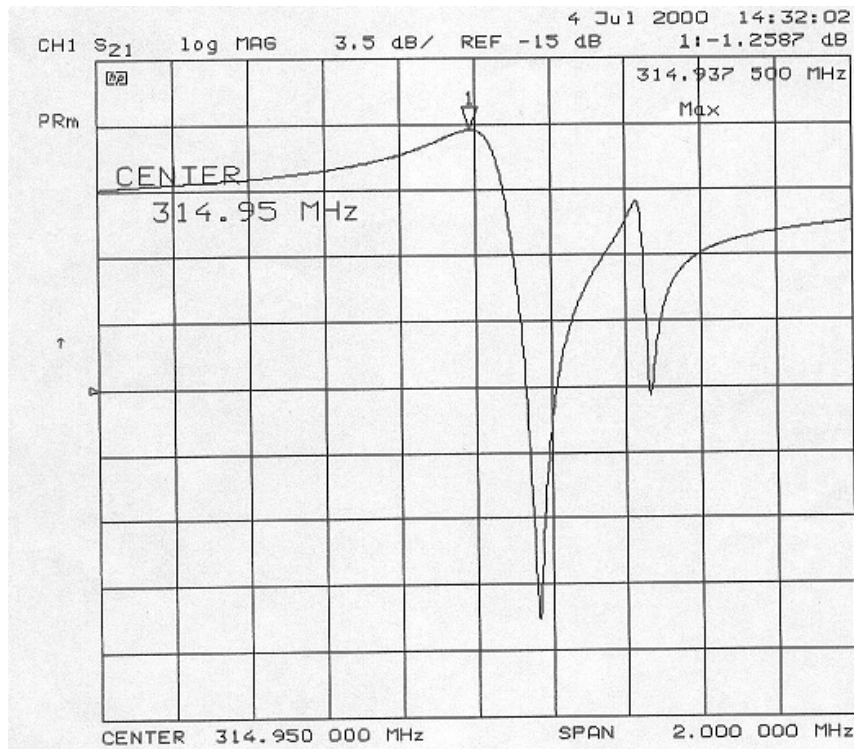
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TST DCC  
Release document

E. EQUVIRENT CIRCUIT:



F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

