

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

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Product Specifications Approval Sheet

Product Description: One-Port SAW Resonator 315.00 MHz F11

TST Part No.: TC0166B

Customer Part No.: _____

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

Checked by: Jimmy Han *Jimmy Han*

Approved by: Francis Chen *Francis Chen*

Date: 2010/01/06

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 315.00 MHz

MODEL NO.: TC0166B

REV. NO.:1

A. FEATURES:

- 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

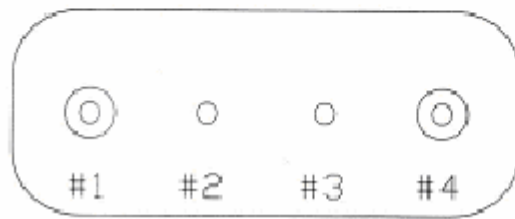
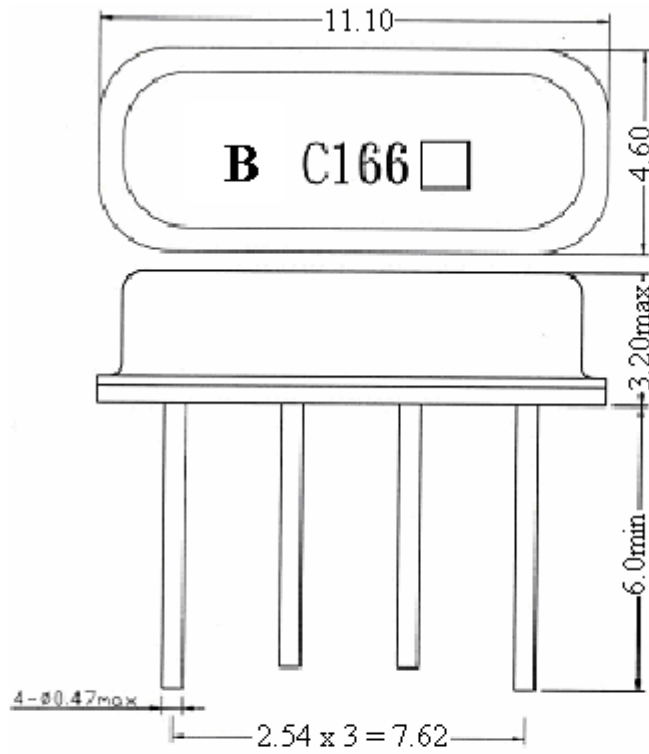
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	314.800	315.000	315.200
Insertion Loss IL	dB	-	1.0	2.0
Equivalent Circuit Model				
Motional capacitance C1	fF	-	3.53	-
Motional inductance L1	μH	-	72.30	-
Motional resistance R1	Ohm	-	11.80	-
Parallel capacitance C_o	pF	-	4.80	-
Frequency Temperature coefficient (TC _f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	35	-	65
Package size	F-11			

RoHS Compliant
Lead free
Lead-free soldering

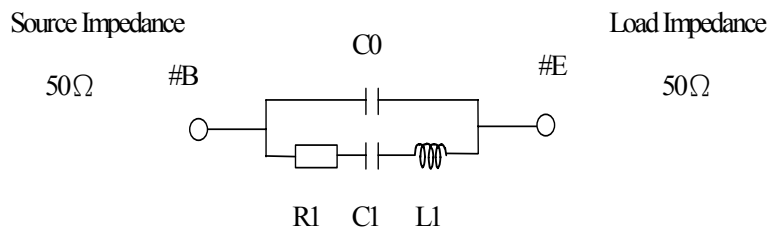
D. OUTLINE DRAWING:



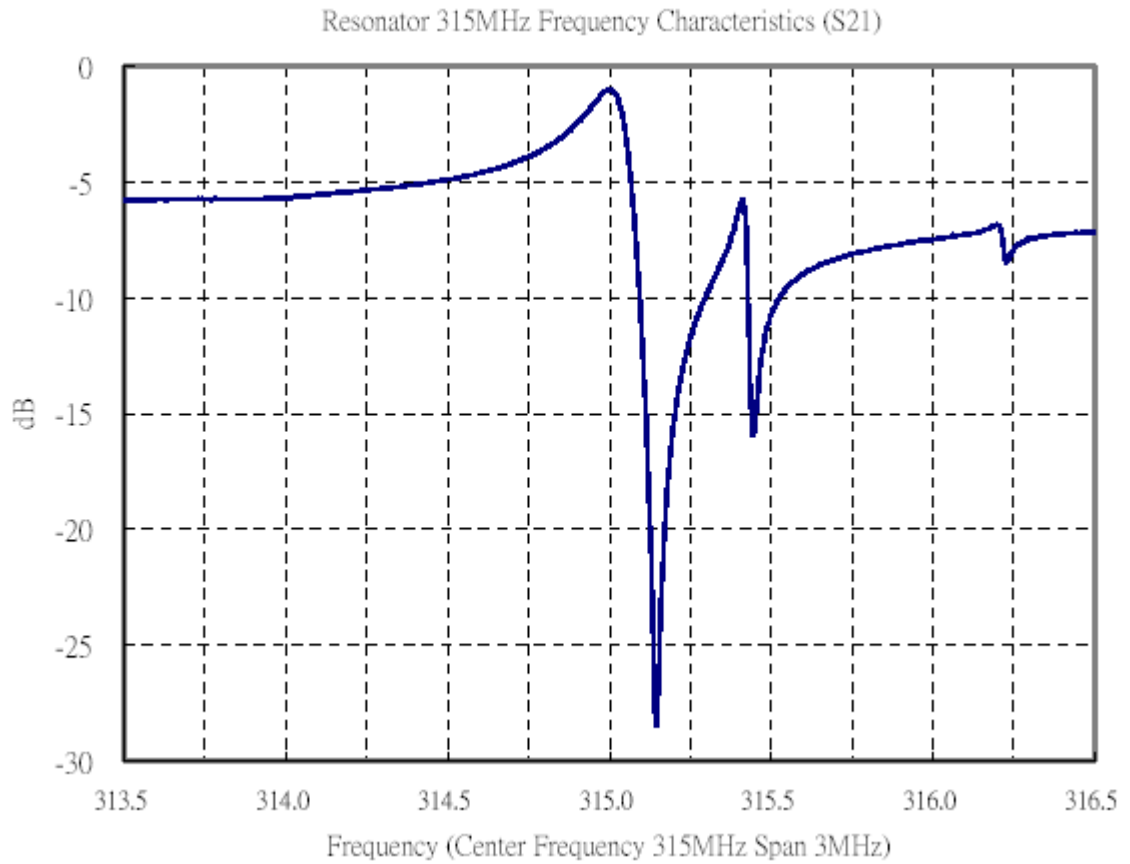
#1 : Input or Output
 #4 : Output or Input
 #2,3 : Ground
 □ : date code
 Unit : mm

E. EQUIVALENT CIRCUIT:

One-Port Resonator:

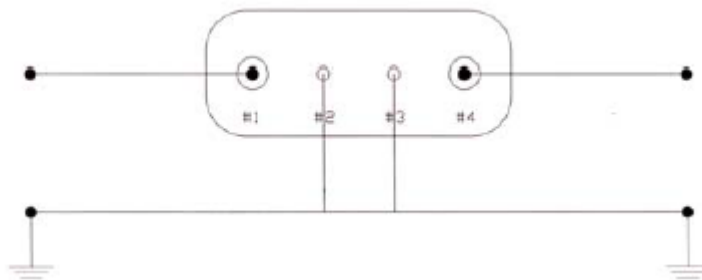


F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

From 50Ω
Network
Analyzer



To 50Ω
Network
Analyzer