



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 315 MHz SMD 3.0X3.0 mm

TST Parts No.: TC0274B

Customer Parts No.: _____

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

Checked by: Paul Ni

Approval by: Francis Chen

Date: 2008/2/14



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SAW Resonator 315 MHz

MODEL NO.: TC0274B

REV. NO.:1

RoHS Compliant
Lead free
Lead-free soldering

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:

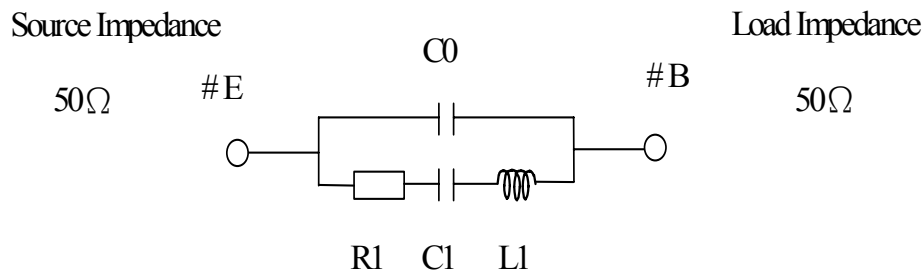
Reference Temperature $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	314.960	315.00	315.040
Insertion Loss IL	dB	-	1.5	2.5
Unload quality factor Q_U		-	8000	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	2.89	-
Motional inductance L1	μH	-	87.5	-
Motional resistance R1	Ohm	-	20.2	-
Parallel capacitance C_o	pF	-	4.14	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	-	25	-
Package size		SMD 3.0X3.0X1.1 mm		

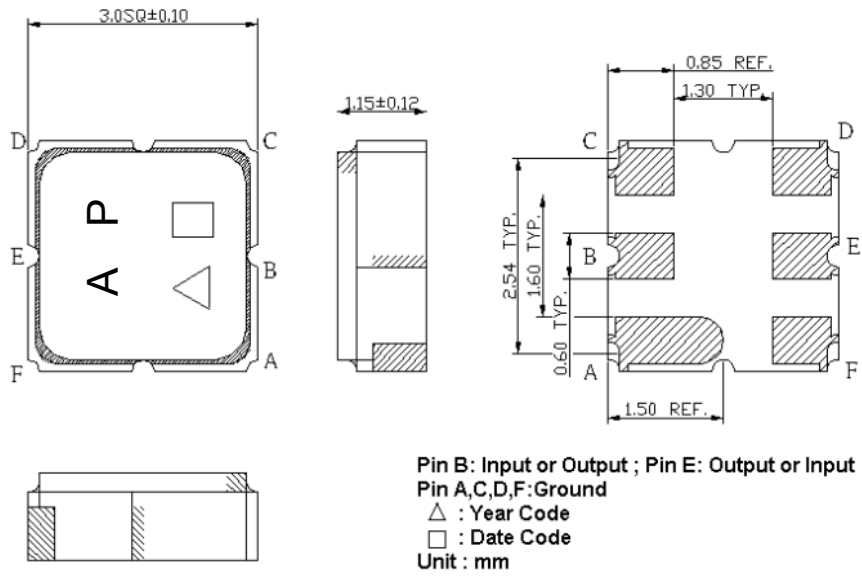
Temperature dependence of fc: $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUIVIRENT CIRCUIT:

One-Port Resonator:

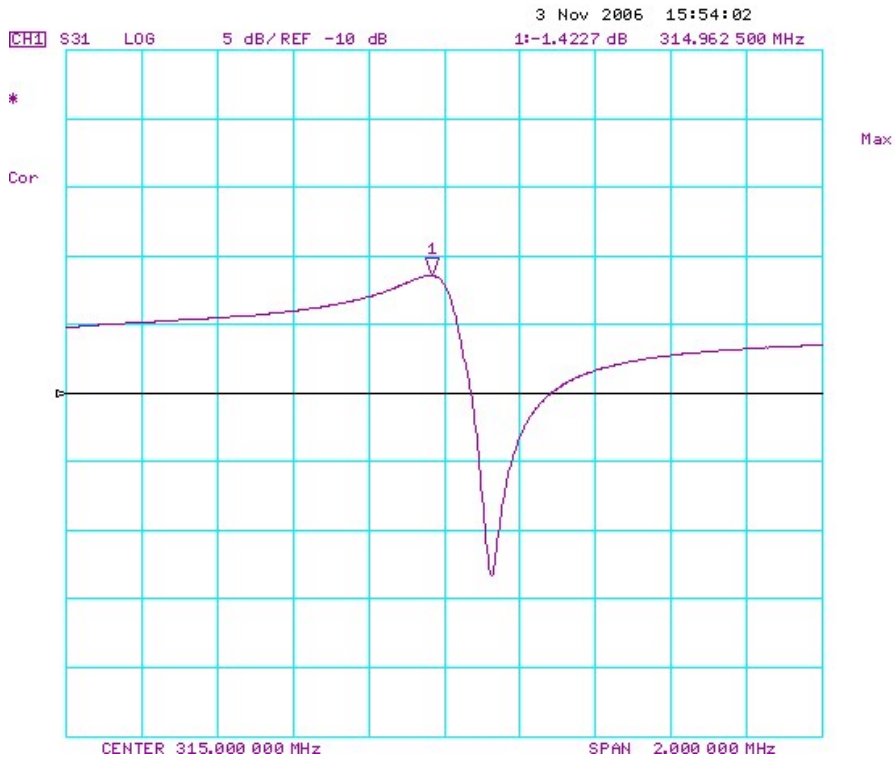


E. OUTLINE DRAWING:

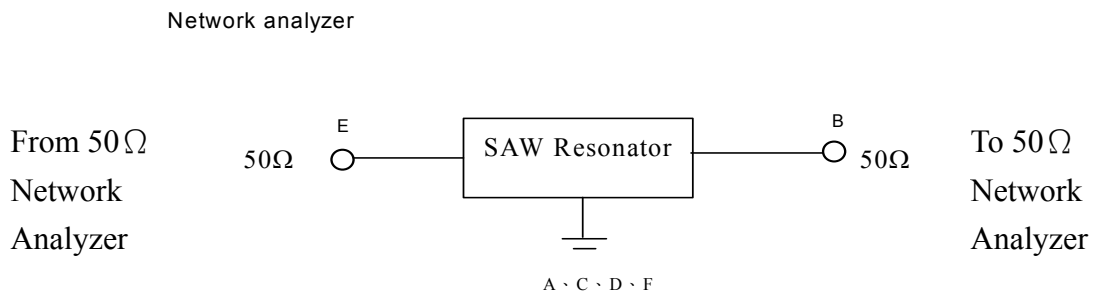


Date code: Provided by planer each year
 Year code: 6 for 2006, 7 for 2007, ...

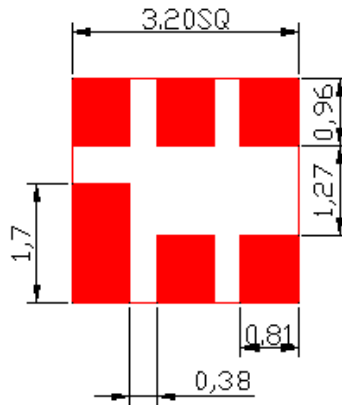
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:



H. PCB Foot Print:



I. PACKING:

1. REEL DIMENSION

