



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 622.31 MHz SMD 3X3 mm

TST Parts No.: TC0246A

Customer Parts No.: _____

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

Checked by: _____ Vincent-WT Chiu

Approval by: _____ Francis Chen

Date: _____ 2004/05/14



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SAW Resonator 622.31 MHz

MODEL NO.: TC0246A

REV. NO.:1

A. FEATURES:

- 1-Port Resonator.

RoHS Compliant
Lead free
Lead-free soldering

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

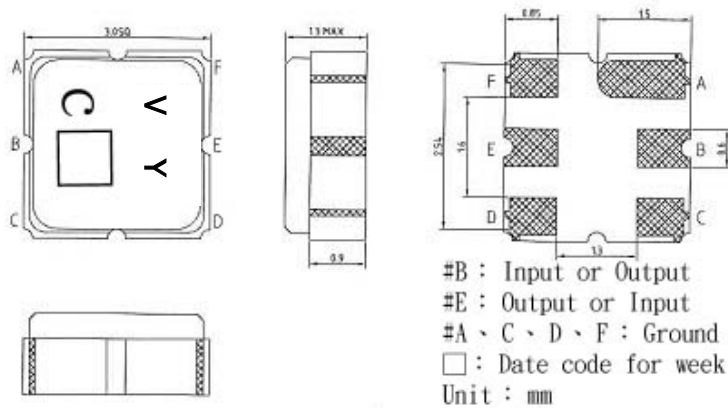
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	622.27	622.31	622.34
Insertion Loss IL	dB	-	1.3	2.0
Unload quality factor Q_U		10000	11300	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	1.64	-
Motional inductance L1	μH	-	39.89	-
Motional resistance R1	Ohm	-	13.75	-
Parallel capacitance Co	pF	-	2.92	-
Frequency Temperature coefficient (C _f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	10		40
Package size		SMD 3x3x1.1 mm		

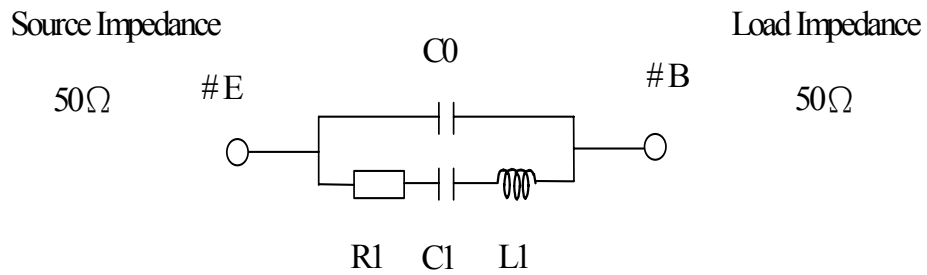
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D. OUTLINE DRAWING:



E. EQUIVALENT CIRCUIT:

One-Port Resonator:

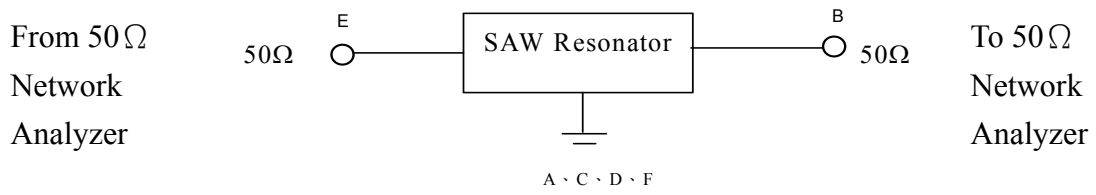


F. FREQUENCY CHARACTERISTICS:

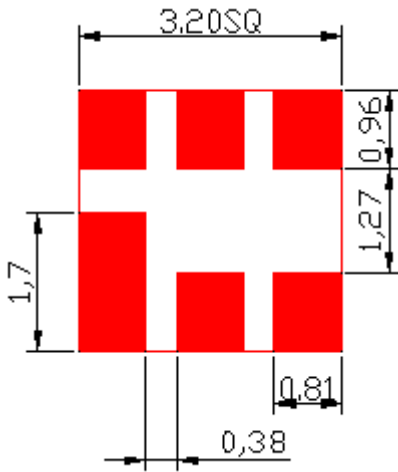


G. TEST CIRCUIT:

Network analyzer

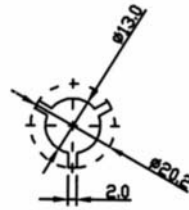
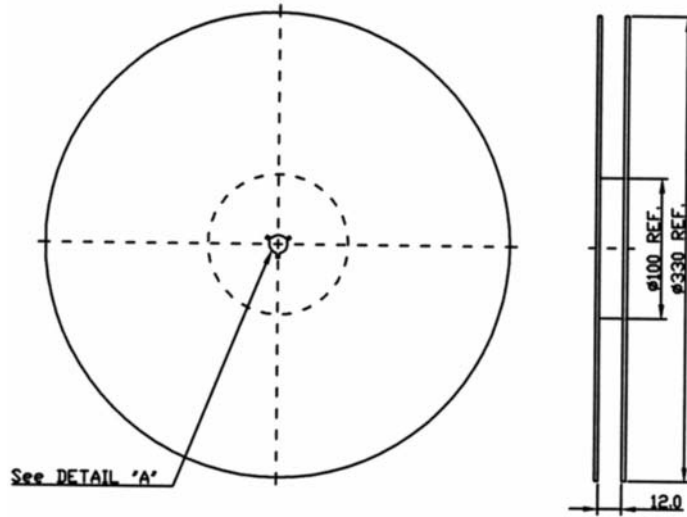


H. LAND PATTERN:



I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

