



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: 2005/02/04

Product Name: SAW Resonator 500.3 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0273A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ AsinLin

Approval by: _____ Francis Chen

Date: _____ 2004/02/04



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SAW Resonator 500.3 MHz

MODEL NO.: TC0273A

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

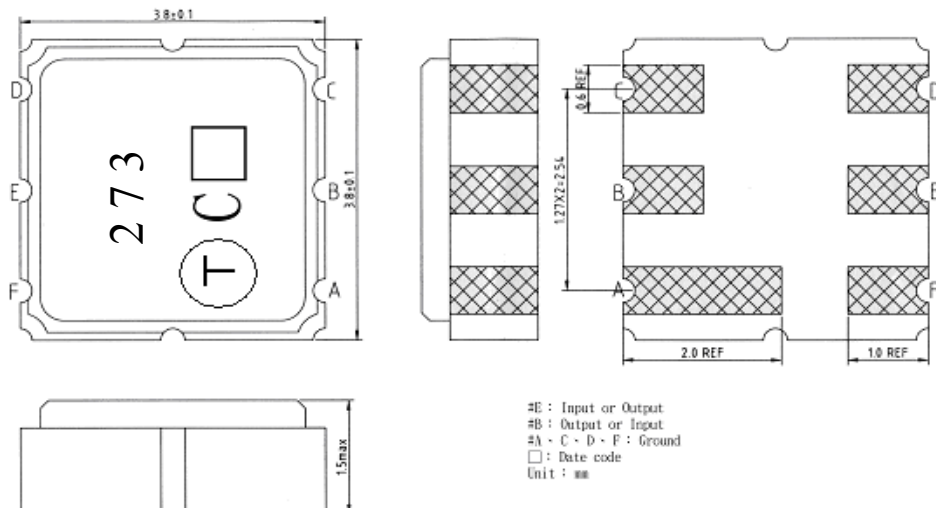
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	500.25	500.3	500.35
Insertion Loss IL	dB	-	1.0	2.0
Unload quality factor Q_U		-	12000	-
Motional capacitance C1	fF	-	1.95	-
Motional inductance L1	μH	-	51.73	-
Motional resistance R1	Ohm	-	13.215	-
Parallel capacitance Co	pF	-	3.29	-
Frequency Temperature coefficient (TC _f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	10	25	40
Package size		SMD 3.8X3.8X1.2mm		

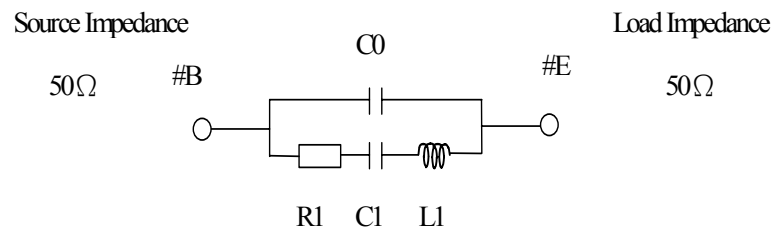
Temperature dependence of fc: $fc(T_A) = fc(T_O)(1 + TC_f(T_A - T_O)^2)$

D. OUTLINE DRAWING:

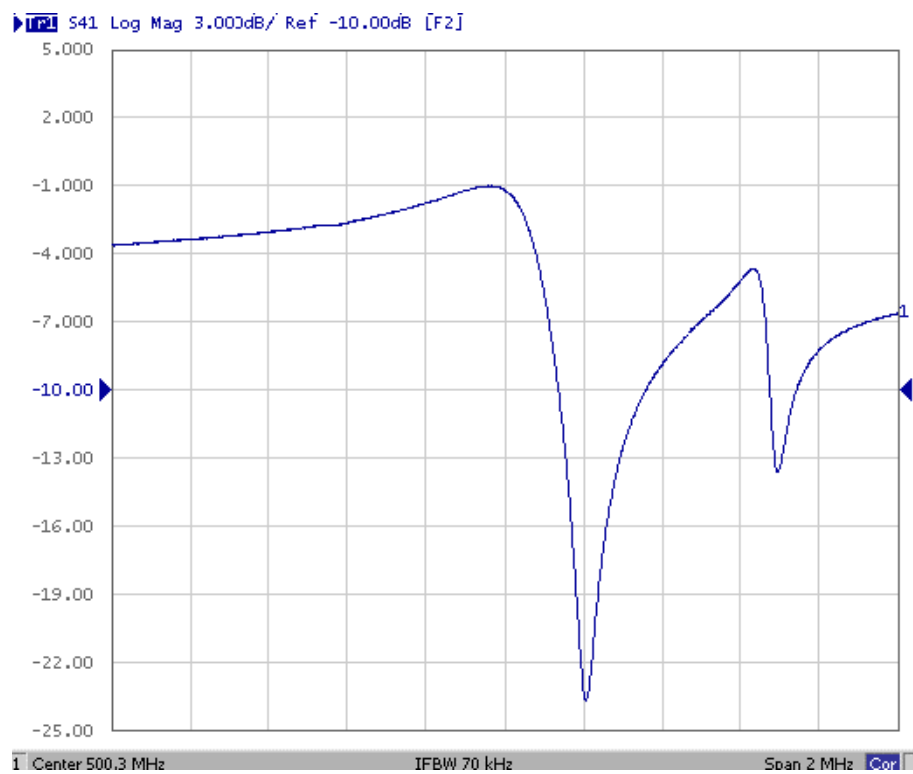


E. EQUIVALENT CIRCUIT:

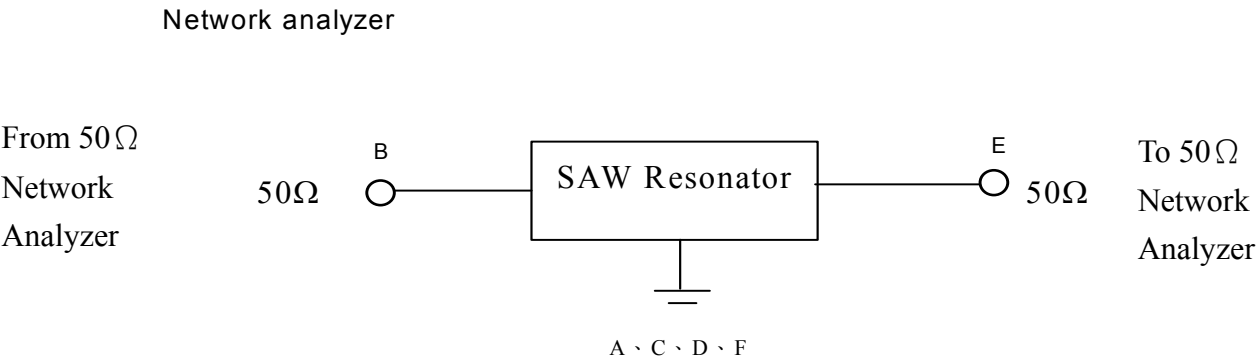
One-Port Resonator:



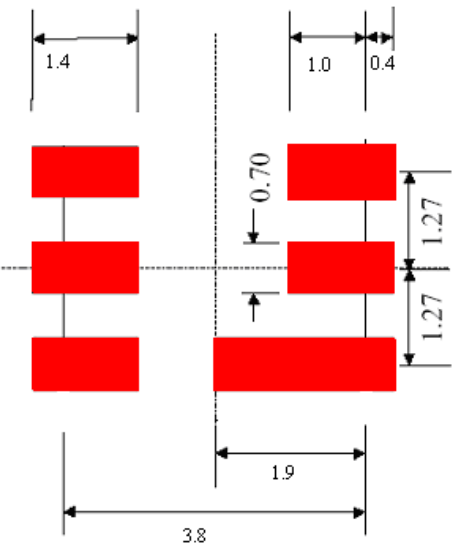
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

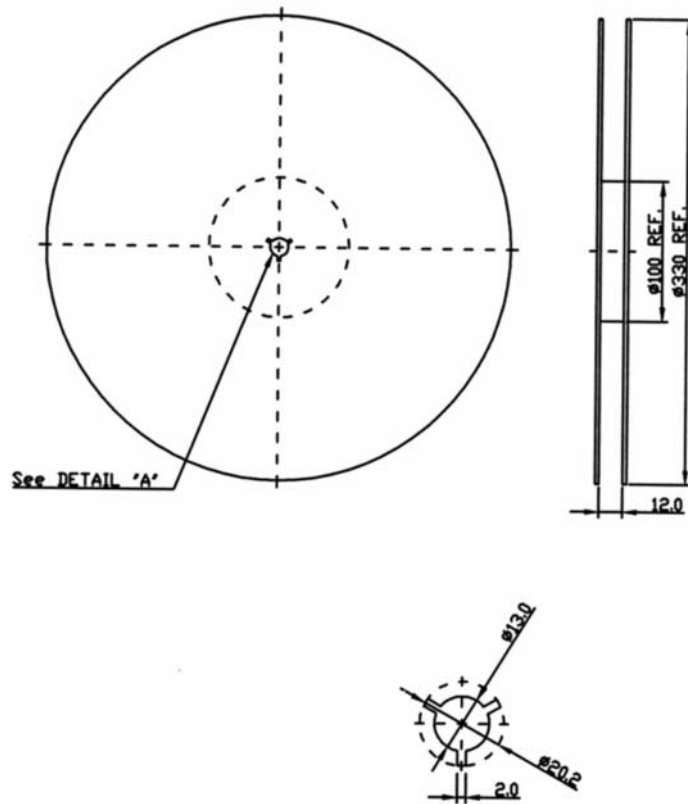


H. PCB FOOTPRINT



I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

