



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 669.557 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0224A

Customer Parts No.: _____

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

Checked by: Vincent Liu

Approval by: Francis Chen

Date: 2003/08/21



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SAW Resonator 669.557 MHz

MODEL NO.: TC0224A

REV. NO.:1

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

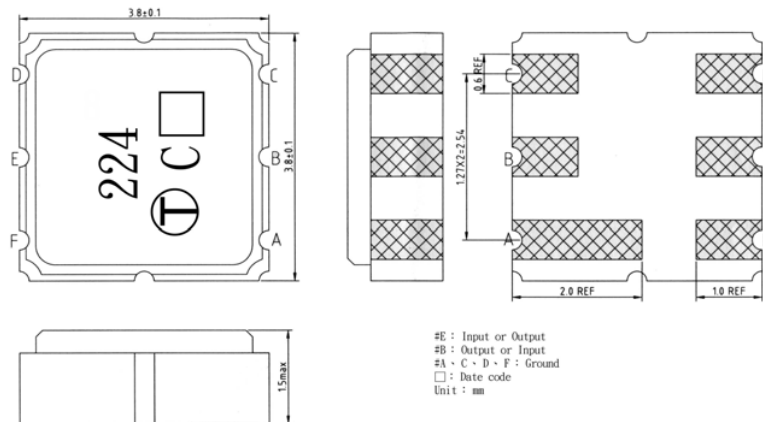
C. ELECTRICAL CHARACTERISTICS:

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

Characteristic	Units	Minimum	Typical	Maximum
Center frequency f_c	MHz	669.527	669.557	669.587
Insertion Loss IL	dB	-	1.3	2.0
Unload quality factor Q_U		6000	7000	-
Ageing of f_c	ppm/yr	-	-	± 10
Motional capacitance C_1	fF	-	1.69	-
Motional inductance L_1	μH	-	33.5	-
Motional resistance R_1	Ohm	-	19.9	-
Parallel capacitance C_0	pF	-	2.92	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size		SMD 3.8X3.8X1.2mm		

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

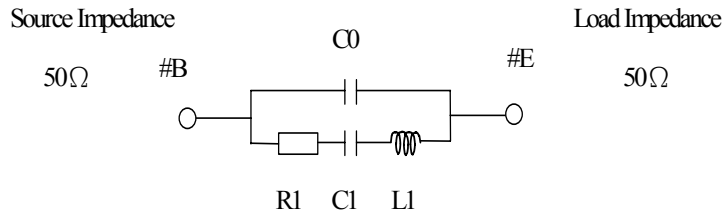
D. OUTLINE DRAWING:



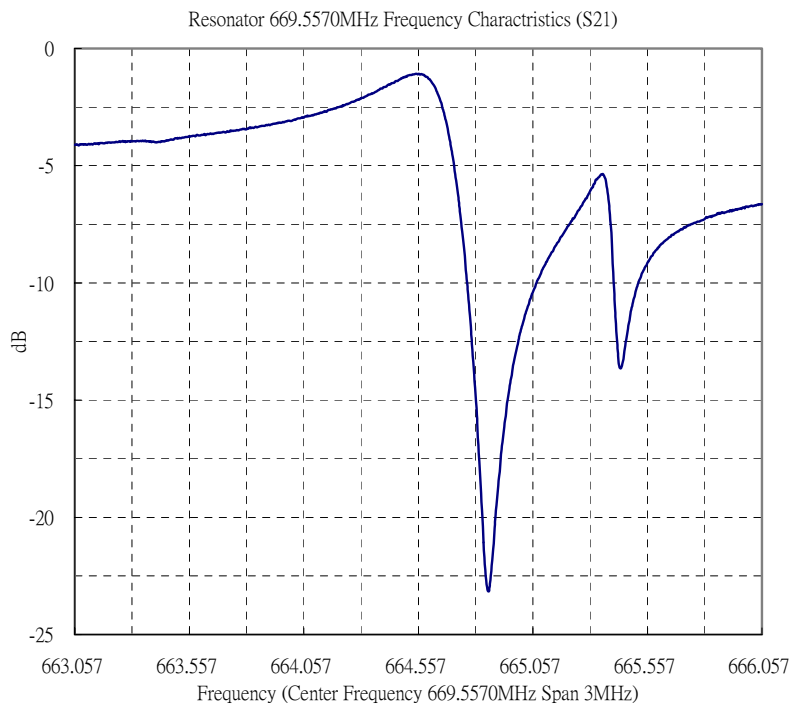
RoHS Compliant
Lead free
Lead-free soldering

E. EQUIVIENT CIRCUIT:

One-Port Resonator:

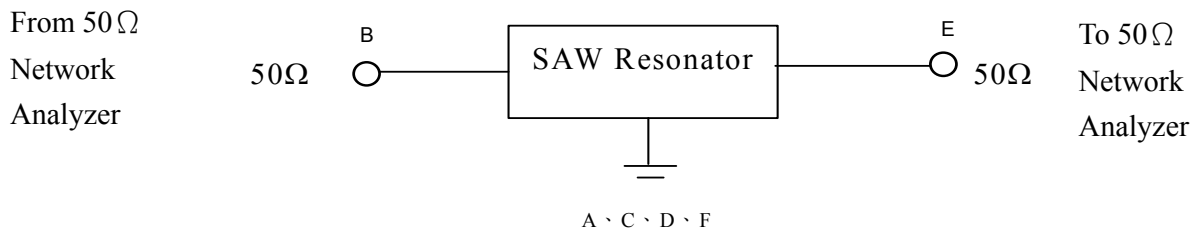


F. FREQUENCY CHARACTERISTICS:



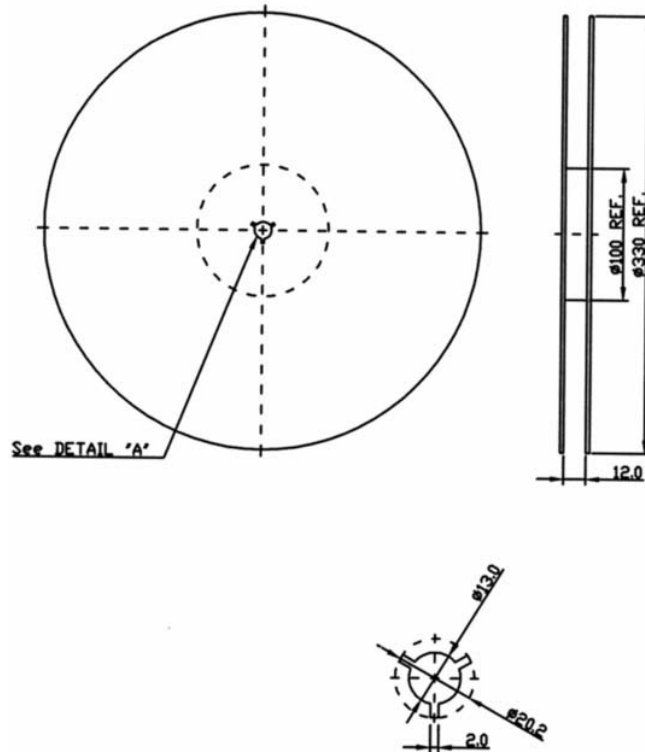
G. TEST CIRCUIT:

Network analyzer

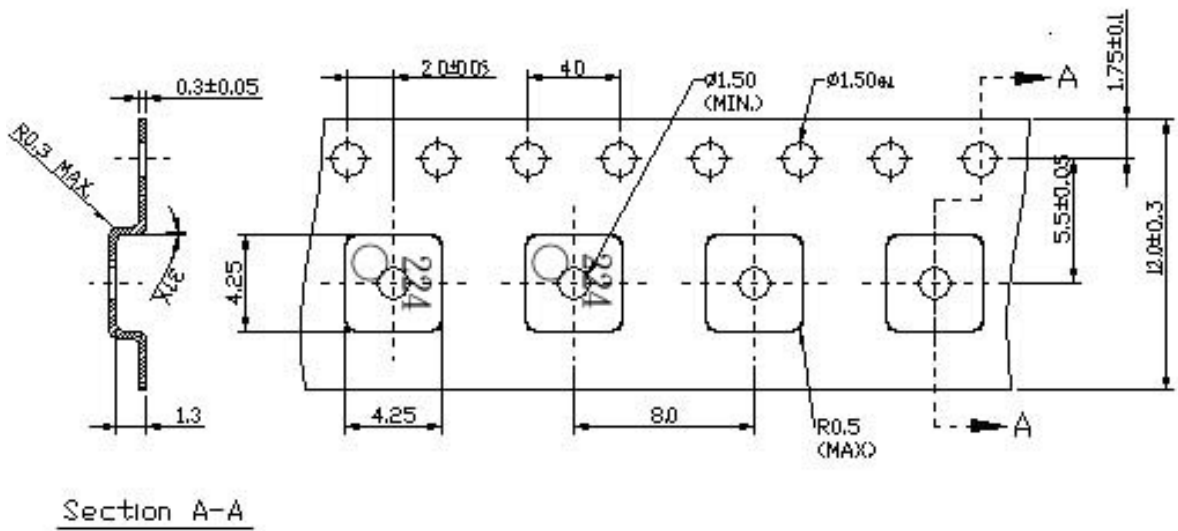


H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Section A-A