



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 433.92 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0318A

Customer Parts No.: _____

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

Checked by: Asin Lin

Approval by: Francis Chen

Date: 2006/3/8



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SAW Resonator 433.92 MHz

MODEL NO.: TC0318A

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:

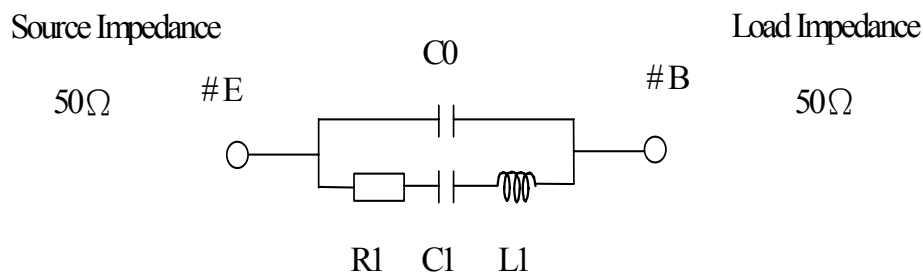
Reference Temperature $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	433.845	433.920	433.995
Insertion Loss IL	dB	-	1.6	2.5
Unload quality factor Q_U		6000	12000	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	1.26	-
Motional inductance L1	μH	-	98.8	-
Motional resistance R1	Ohm	-	22.2	-
Parallel capacitance C₀	pF	-	2.63	-
Frequency Temperature coefficient (TC _f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	-2.5	12.5	27.5
Package size		SMD 3.8X3.8X1.2 mm		

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

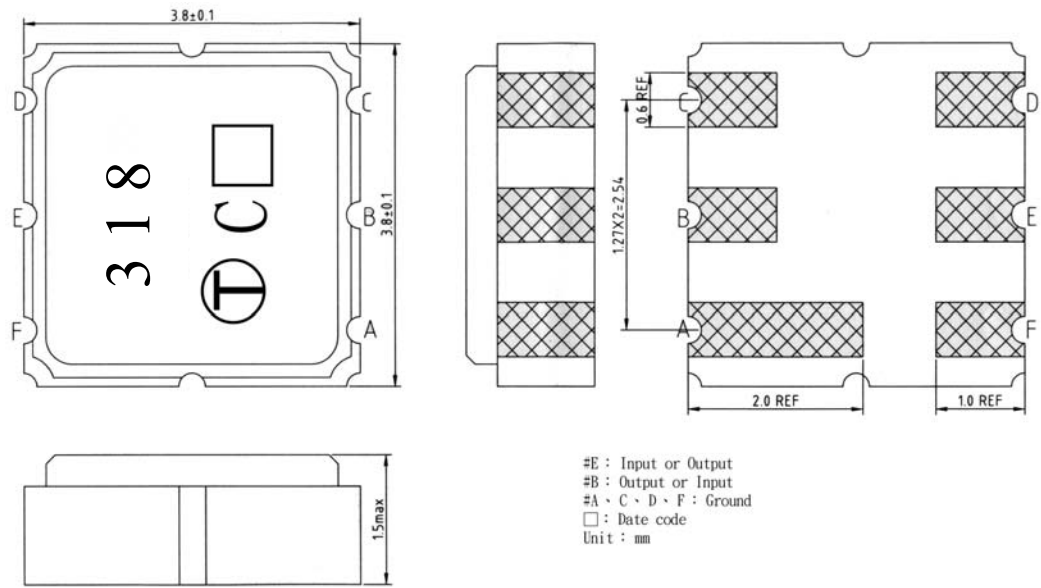
D. EQUIVALENT CIRCUIT:

One-Port Resonator:



RoHS Compliant
Lead free
Lead-free soldering

E. OUTLINE DRAWING:

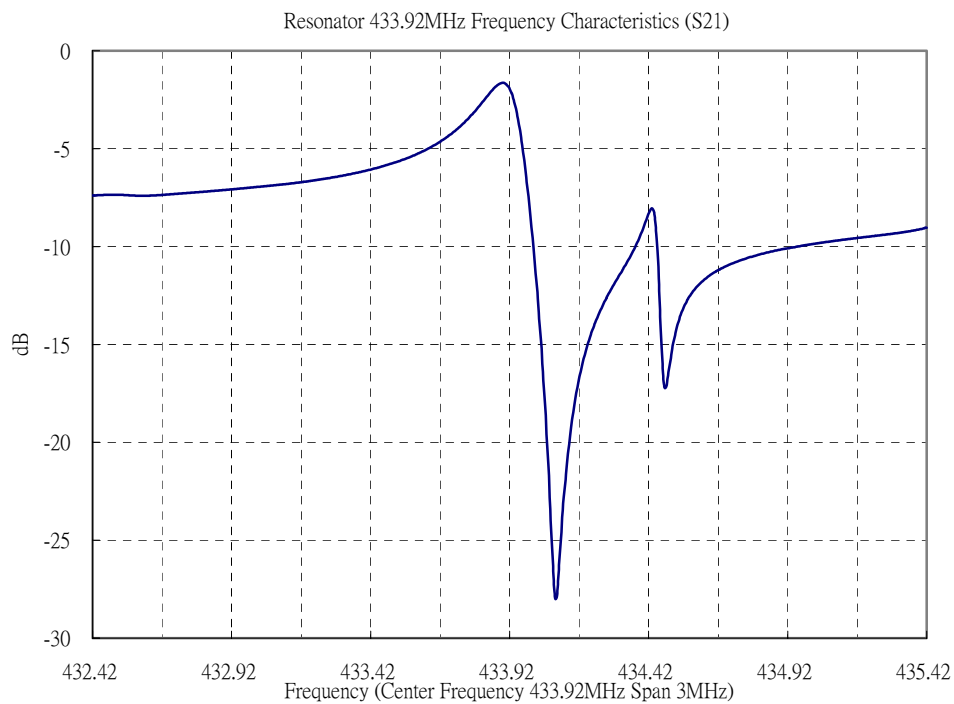


□ Date code: Provided by planer each year

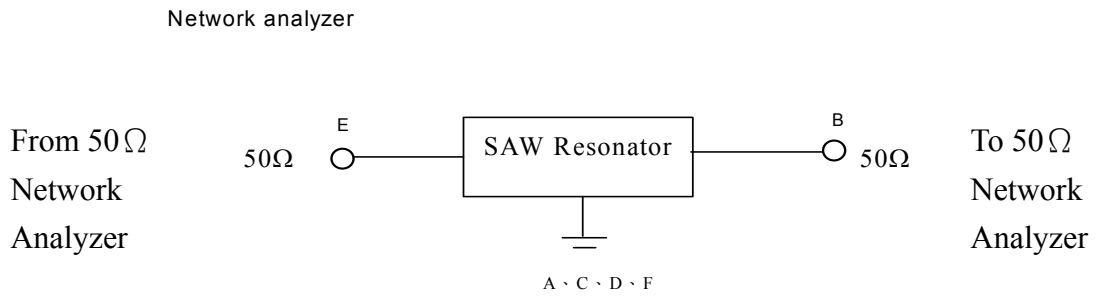
Product Year Code

Year	2001	2002
	2003	2004
	2005	2006
	.	.
Product Code	C	c

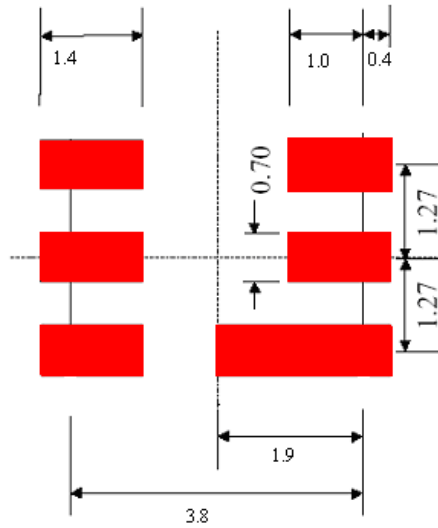
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

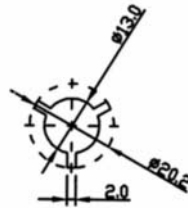


H. PCB Foot Print:

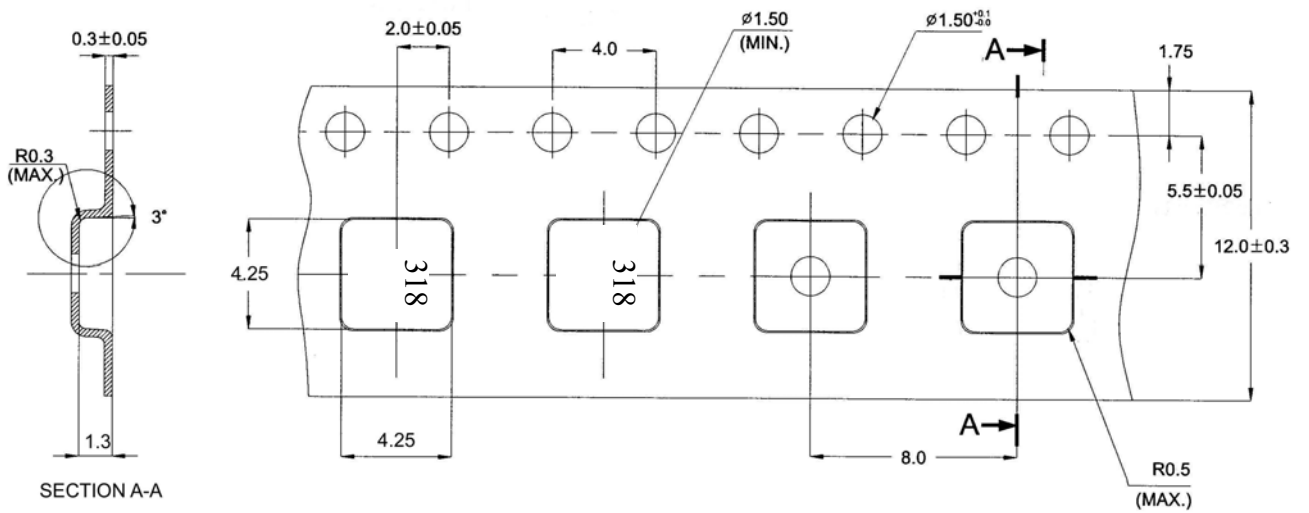


I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



J. REFLOW PROFILE

