



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Resonator 916.5 MHz SMD 3X3 mm

TST Parts No.: TC0391A

Customer Parts No.: _____

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

Checked by: Asin Lin

Approval by: Francis Chen

Date: 2007/04/02



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Resonator 916.5 MHz

MODEL NO.: TC0391A

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:

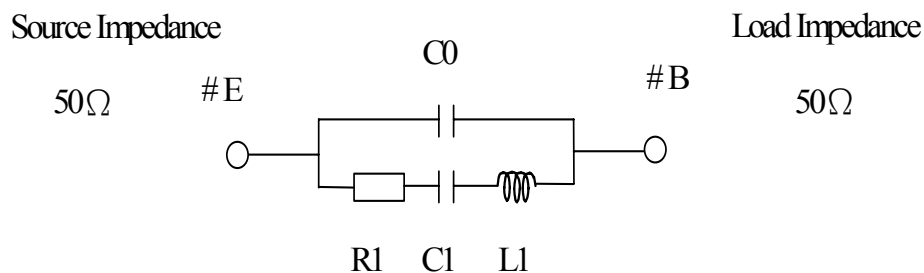
Reference Temperature $T_A=25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	916.425	916.500	916.575
Insertion Loss IL	dB	-	1.4	2.2
Unload quality factor Q_U		-	9300	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	1.08	-
Motional inductance L1	μH	-	27.8	-
Motional resistance R1	Ohm	-	17.2	-
Parallel capacitance C_o	pF	-	2.3	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover To	deg.C	10	25	40
Package size		SMD 3X3X1.1 mm		

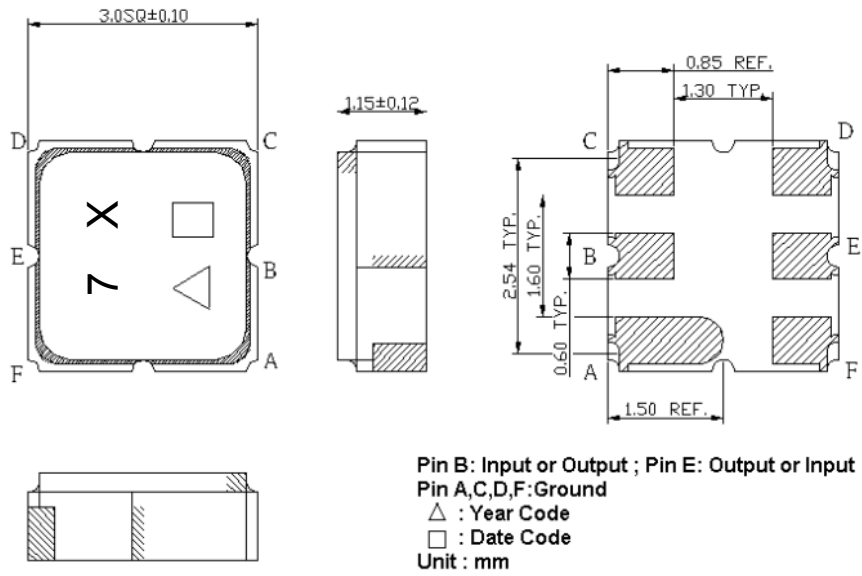
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUIVIRENT CIRCUIT:

One-Port Resonator:



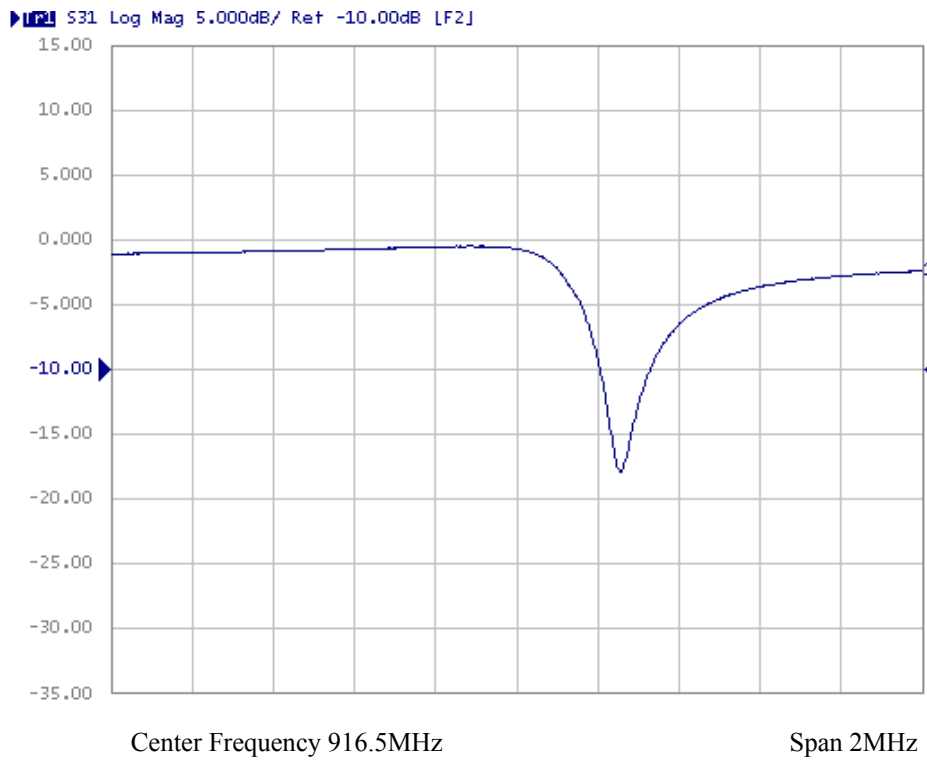
E. OUTLINE DRAWING:



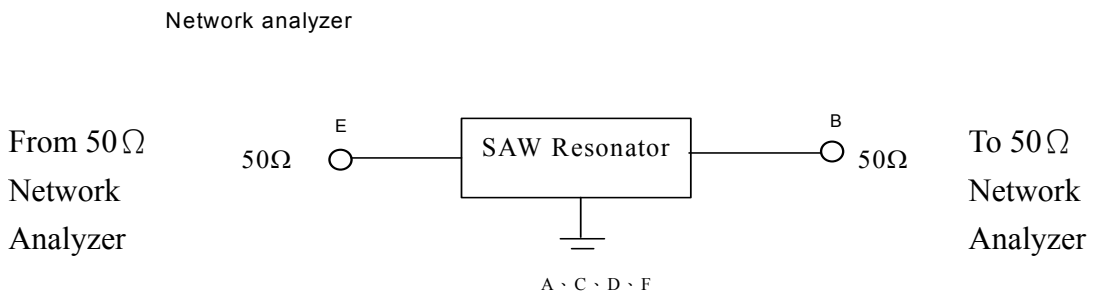
Date code: Provided by planer each year

Year code: 7 for 2007, 8 for 2008, ...

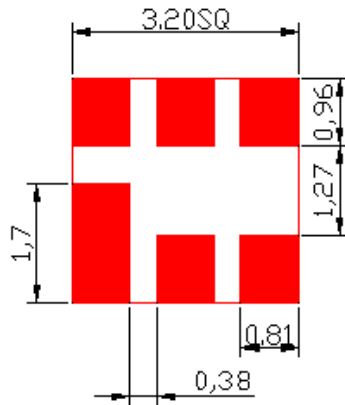
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

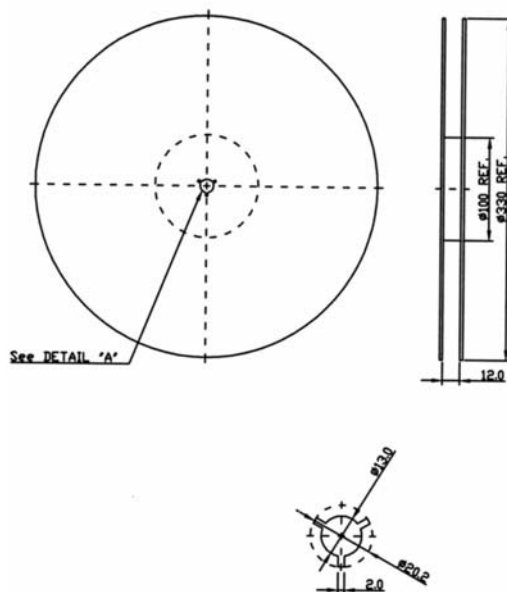


H. PCB Foot Print:

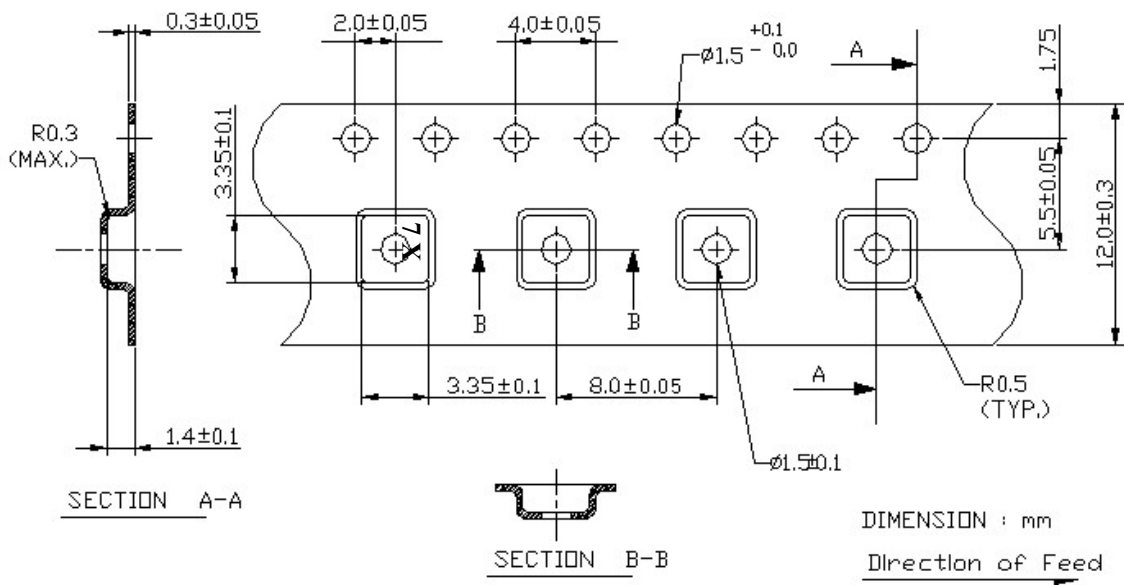


I. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



H.RECOMMENDED REFLOW PROFILE:

