



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 315 MHz SMD 3.0X3.0 mm

TST Parts No.: TC0274B

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Paul Ni

Approval by: _____ Francis Chen

Date: _____ 2008/2/14



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SAW Resonator 315 MHz

MODEL NO.: TC0274B

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:

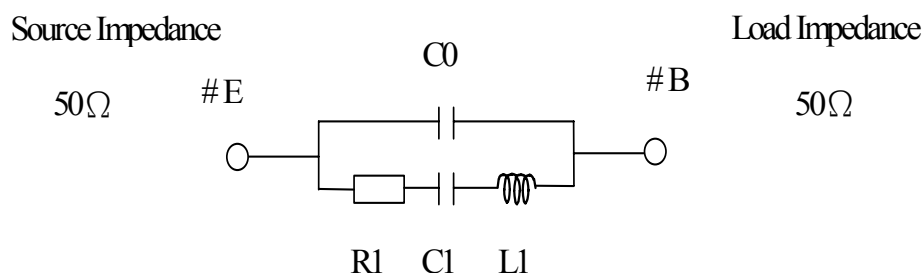
Reference Temperature $T_A = 25^\circ\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	314.960	315.00	315.040
Insertion Loss IL	dB	-	1.5	2.5
Unload quality factor Q_U		-	8000	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	2.89	-
Motional inductance L1	μH	-	87.5	-
Motional resistance R1	Ohm	-	20.2	-
Parallel capacitance C0	pF	-	4.14	-
Frequency Temperature coefficient (TC_f)	ppm/°C	-	0.032	-
Turnover To	deg.C	-	25	-
Package size		SMD 3.0X3.0X1.1 mm		

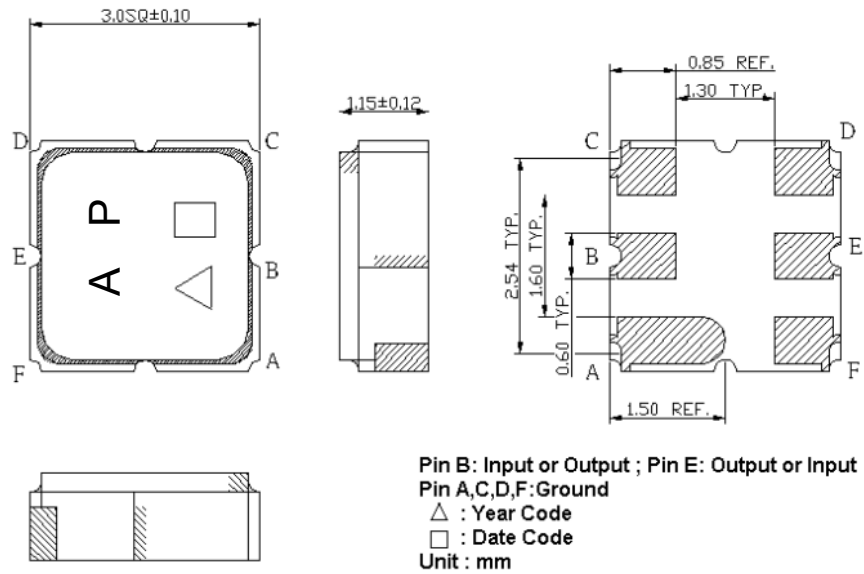
Temperature dependence of fc: $f_c(T_A) = f_c(T_0)(1 + TC_f(T_A - T_0)^2)$

D. EQUIVALENT CIRCUIT:

One-Port Resonator:



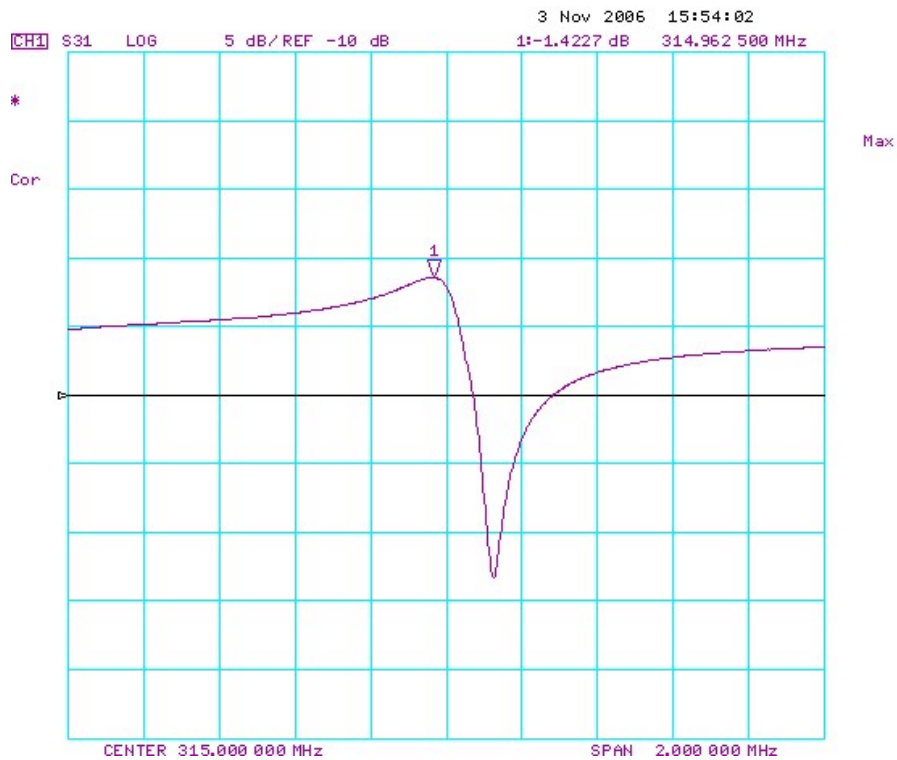
E. OUTLINE DRAWING:



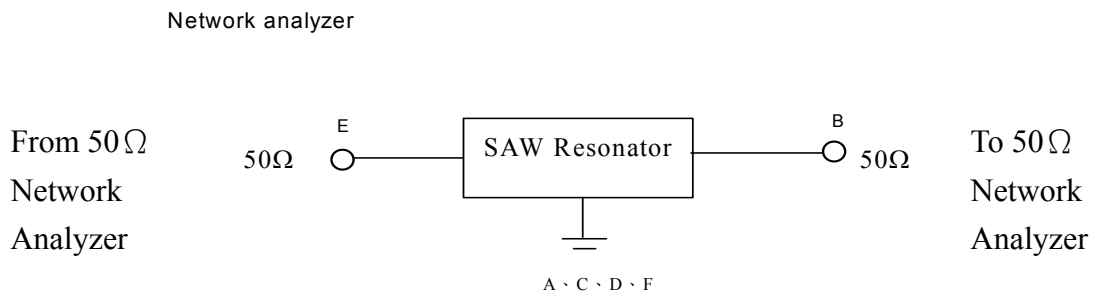
Date code: Provided by planer each year

Year code: 6 for 2006, 7 for 2007, ...

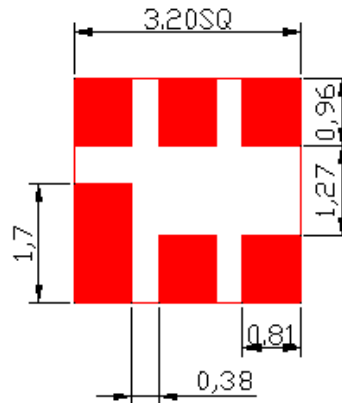
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

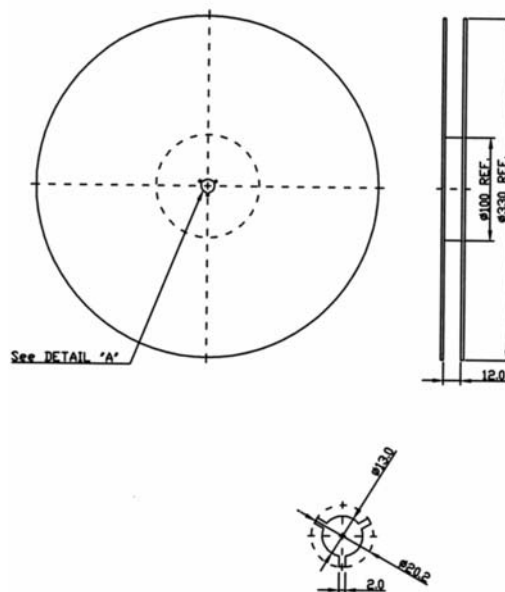


H. PCB Foot Print:

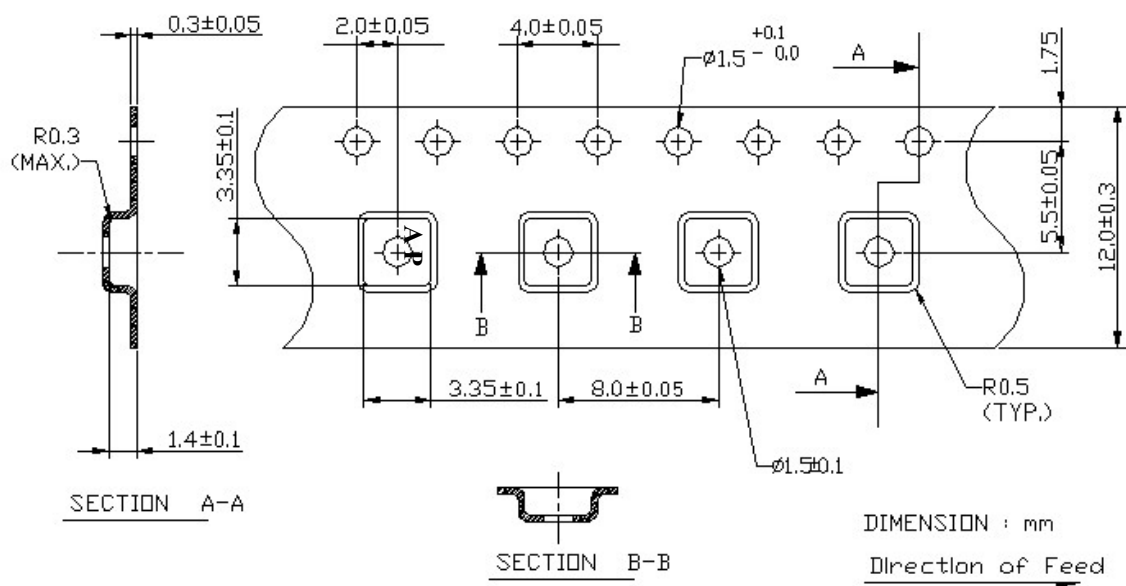


I. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



H.RECOMMENDED REFLOW PROFILE:

