



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 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



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 433.92 MHz

MODEL NO.: TC0318A

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:

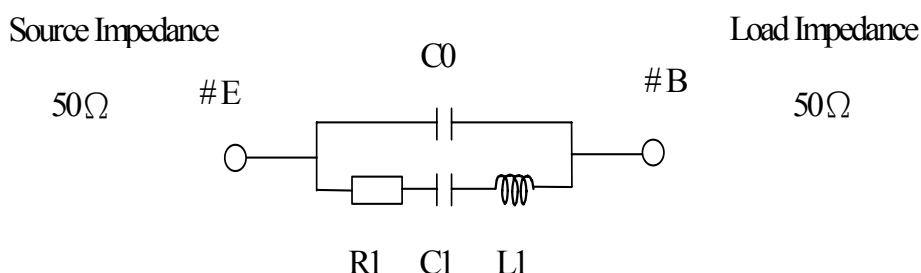
Reference Temperature $T_A=25^{\circ}\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	433.845	433.920	433.995
Insertion Loss IL	dB	-	1.6	2.5
Unload quality factor Q_U		6000	12000	-
Ageing of f_c	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 T_o	deg.C	-2.5	12.5	27.5
Package size		SMD 3.8X3.8X1.2 mm		

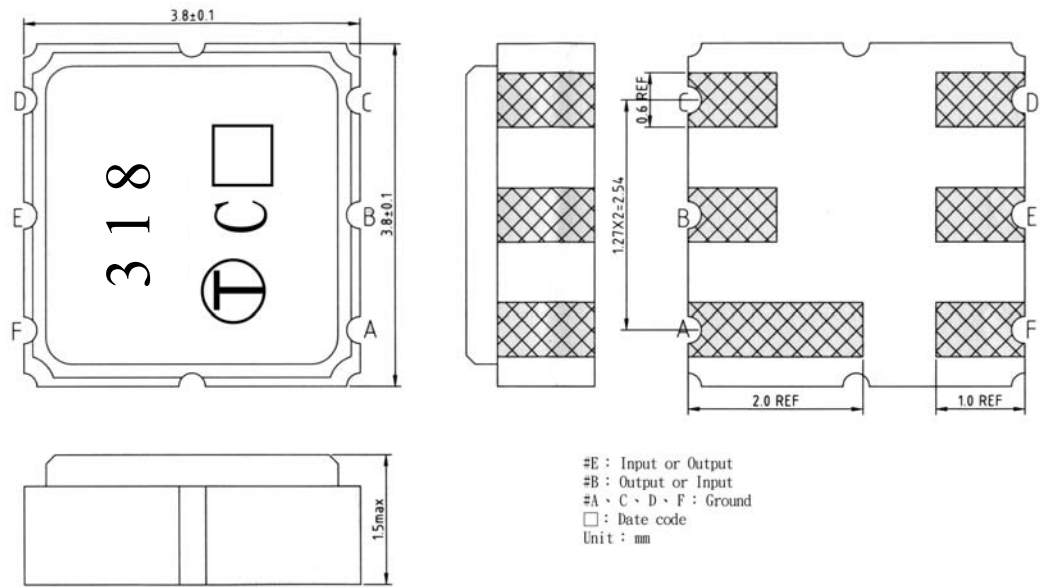
Temperature dependence of f_c : $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUIVALENT CIRCUIT:

One-Port Resonator:



E. OUTLINE DRAWING:



☐ Date code: Provided by planer each year

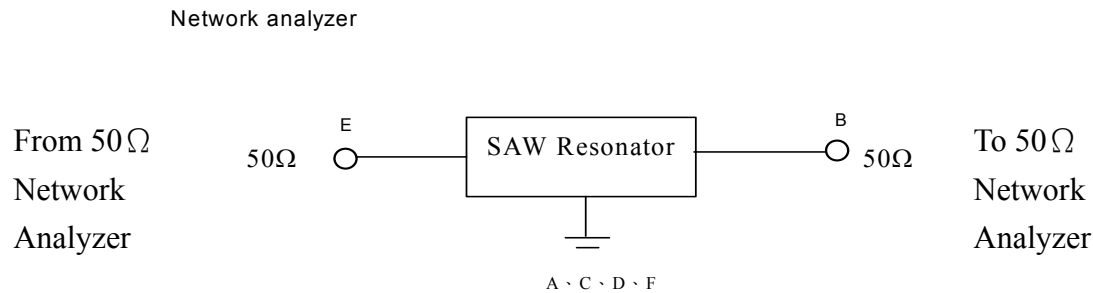
Product Year Code

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

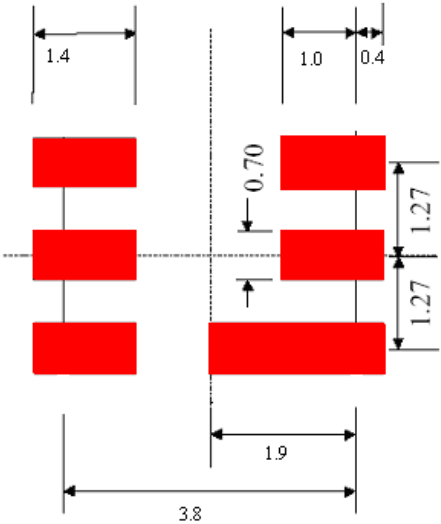
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

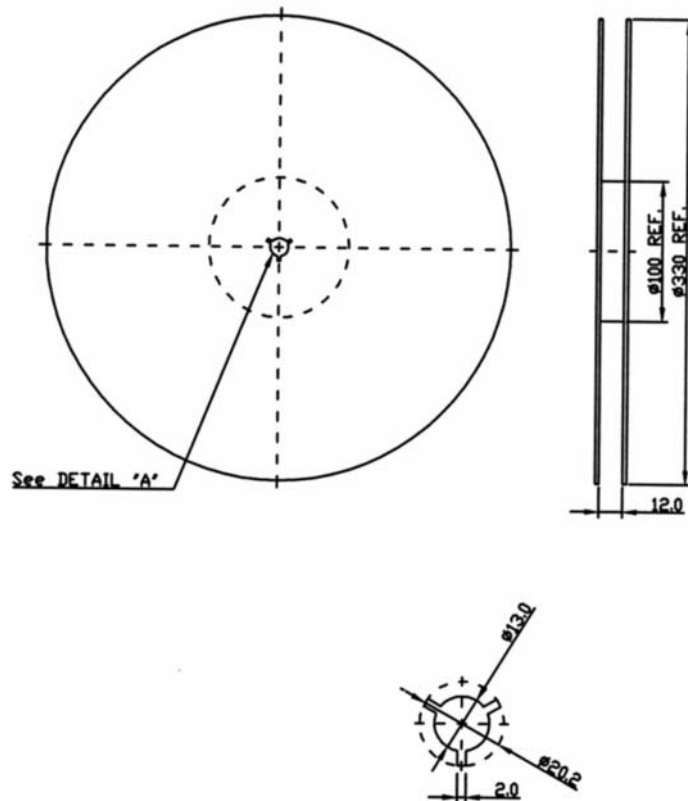


H. PCB Foot Print:

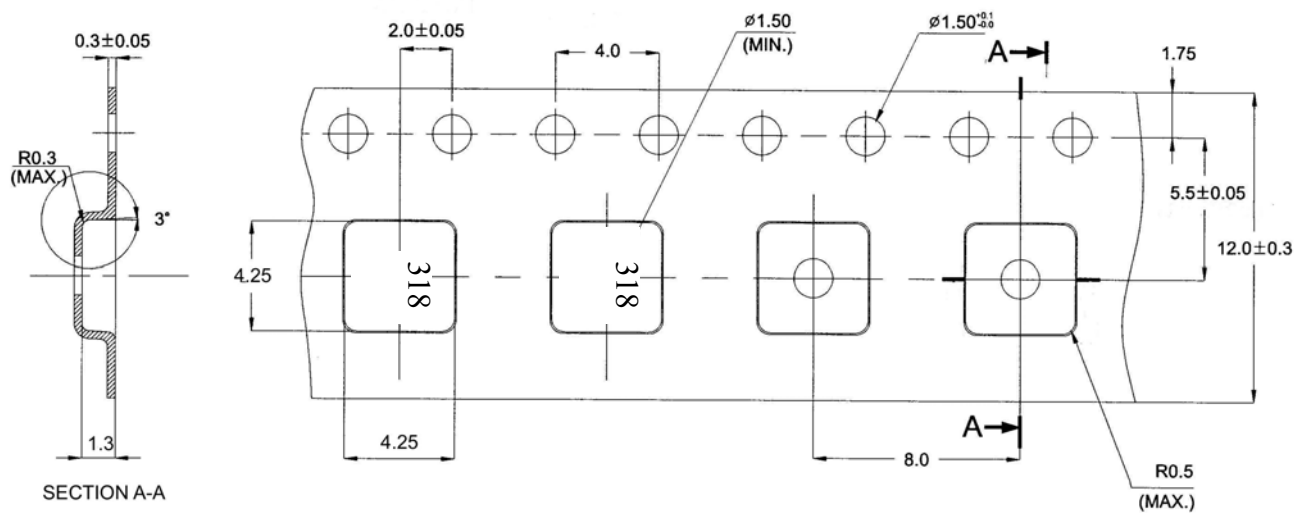


I. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



J. REFLOW PROFILE

