



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 3X3 mm

TST Parts No.: TC0219A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: Asin Lin

Approval by: Francis Chen

Date: 2006/1/11



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SAW Resonator 433.92 MHz

MODEL NO.: TC0219A

REV. NO.:5

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:

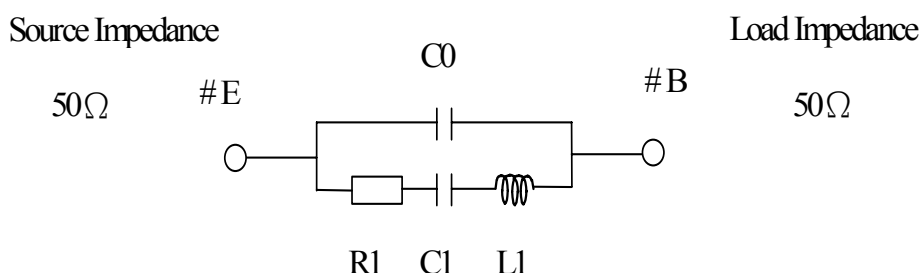
Reference Temperature $T_A=25^{\circ}\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency F_c	MHz	433.845	433.920	433.995
Insertion Loss IL	dB	-	1.58	2.2
Unload quality factor Q_u		6000	11000	-
Ageing of f_c	ppm/yr	-	-	± 10
Motional capacitance C₁	fF	-	1.5	-
Motional inductance L₁	μH	-	89.79	-
Motional resistance R₁	Ohm	-	22.25	-
Parallel capacitance C₀	pF	-	2.95	-
Frequency Temperature coefficient (TC_f)	ppm/c*2	-	0.032	-
Turnover T_o	deg.C	10	25	40
Package size		SMD 3X3X1.1 mm		

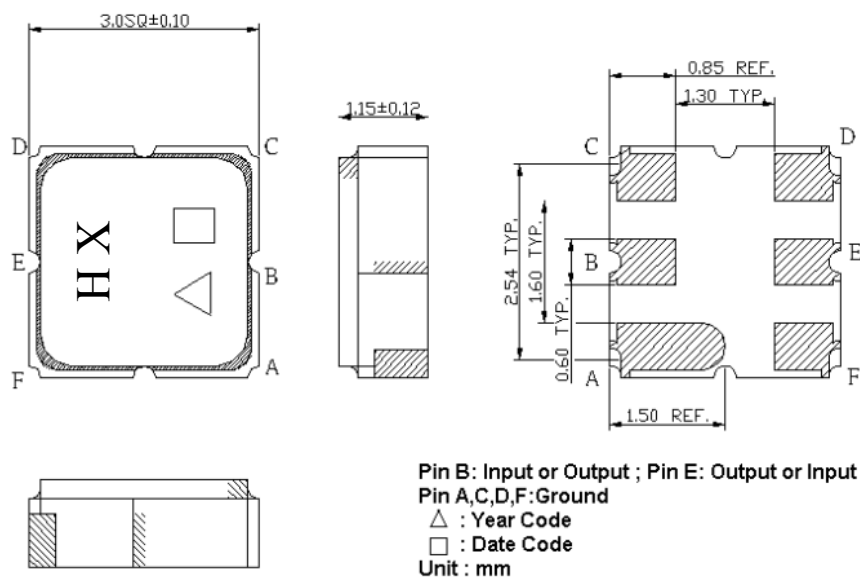
Temperature dependence of f_c : $f_c(T_A)=f_c(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUIVALENT CIRCUIT:

One-Port Resonator:

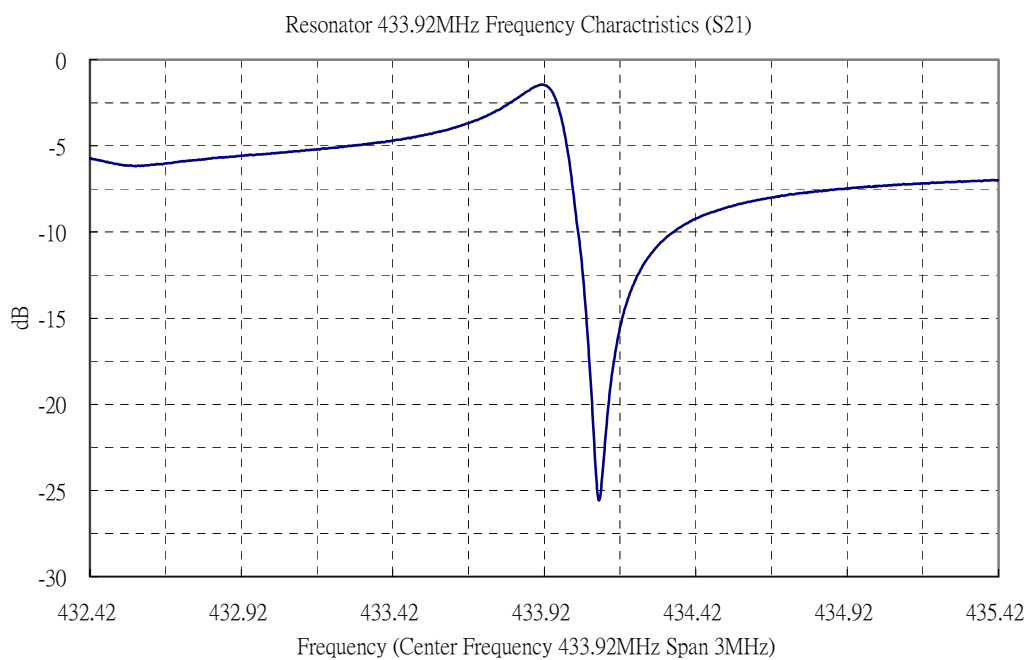


E. OUTLINE DRAWING:

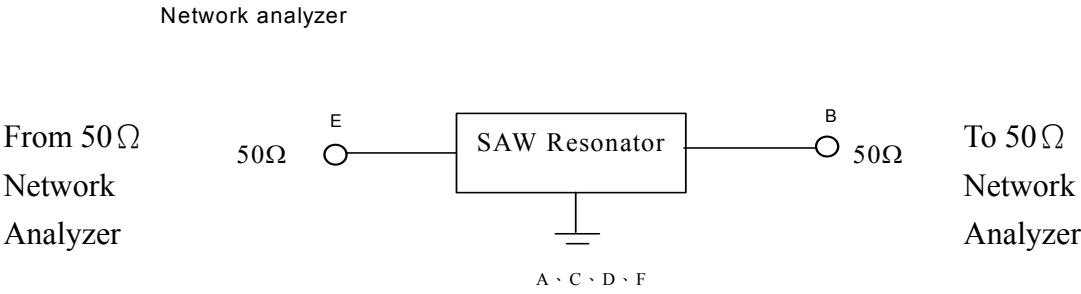


□ Date code: Provided by planer each year
 Year code: 5 for 2005, 6 for 2006, ...

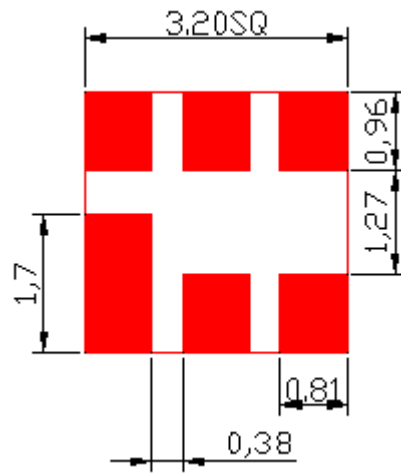
F. FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

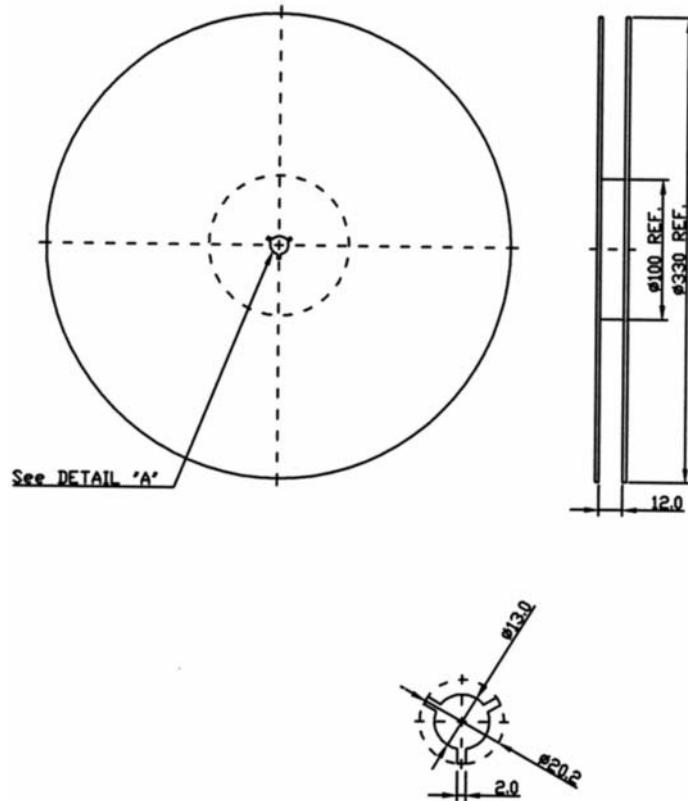


H. PCB FOOTPRINT:



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

