



TAI-SAW TECHNOLOGY CO., LTD.

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

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Product Specifications Approval Sheet

Product Description: SAW Resonator 433.816 MHz SMD 3.0X3.0 mm

TST Part No.: TC0330A

Customer Part No.: _____

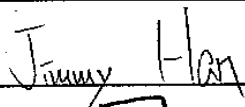
Customer signature required

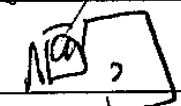
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Jimmy Han 

Approved by: _____ Francis Chen 

Date: _____ 2010/12/28

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW Resonator 433.816 MHz

MODEL NO.: TC0330A

REV. NO.:3

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:

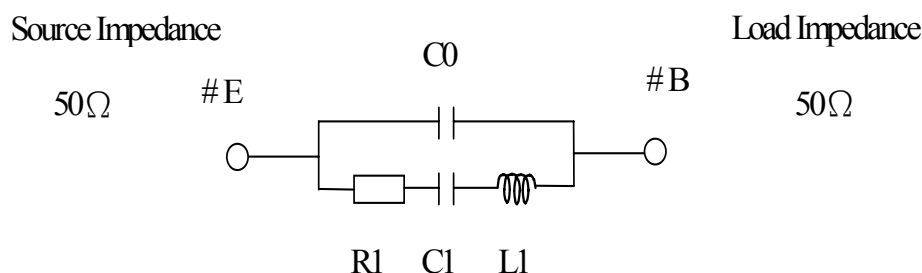
Reference Temperature $T_A=25^{\circ}\text{C}$

Characteristic	Units	Minimum	Typical	Maximum
Center frequency Fc	MHz	433.741	433.816	4433.891
Insertion Loss IL	dB	-	0.9	2.0
Unload quality factor Q_U		6000	8000	-
Ageing of fc	ppm/yr	-	-	±10
Motional capacitance C1	fF	-	3.50	-
Motional inductance L1	μH	-	38.4	-
Motional resistance R1	Ohm	-	12.59	-
Parallel capacitance C0	pF	-	4.72	-
Frequency Temperature coefficient (TC_f)	ppm/°C	-	0.032	-
Turnover To	deg.C	-	25	-
Package size		SMD 3X3X1.1 mm		

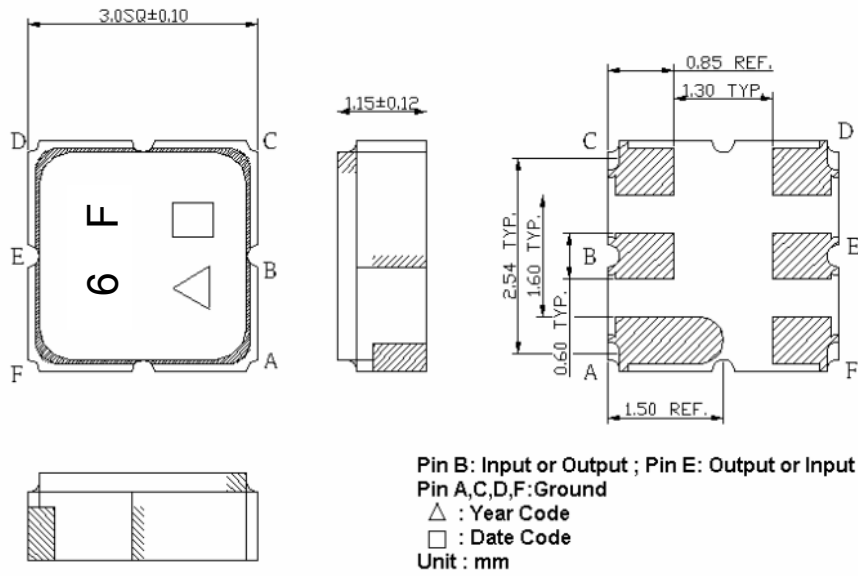
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D. EQUIVALENT CIRCUIT:

One-Port Resonator:



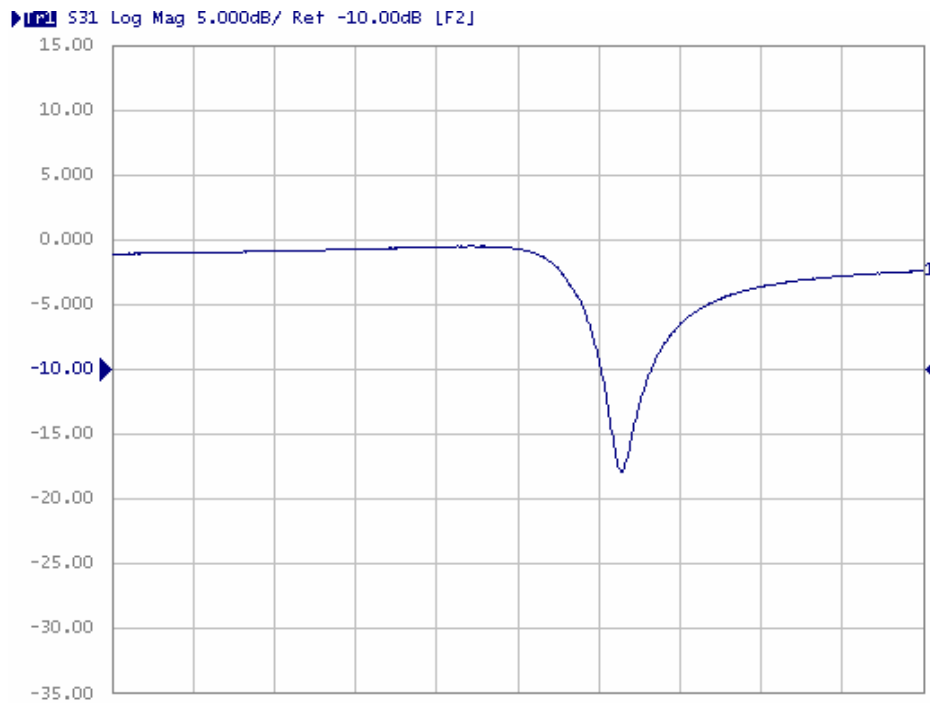
E.OUTLINE DRAWING:



Date code: Provided by planer each year

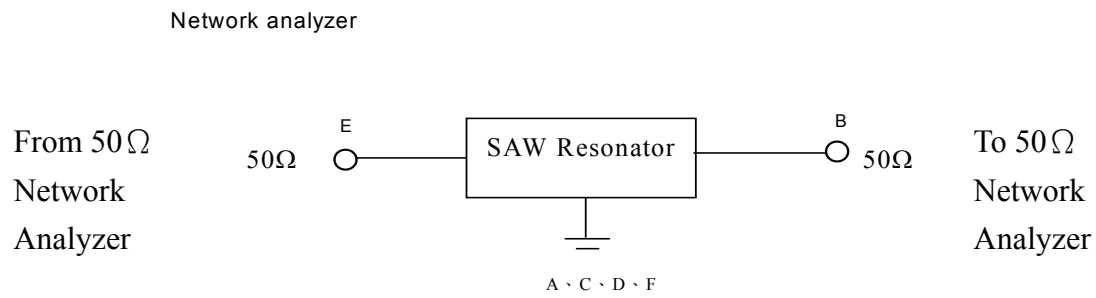
Year code: 6 for 2006, 7 for 2007, ...

F.FREQUENCY CHARACTERISTICS:

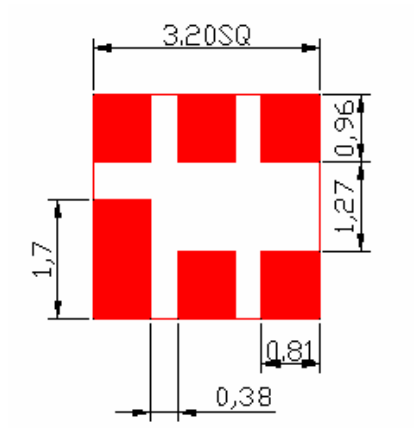


Center Frequency 433.816MHz Span 2MHz

G. TEST CIRCUIT:

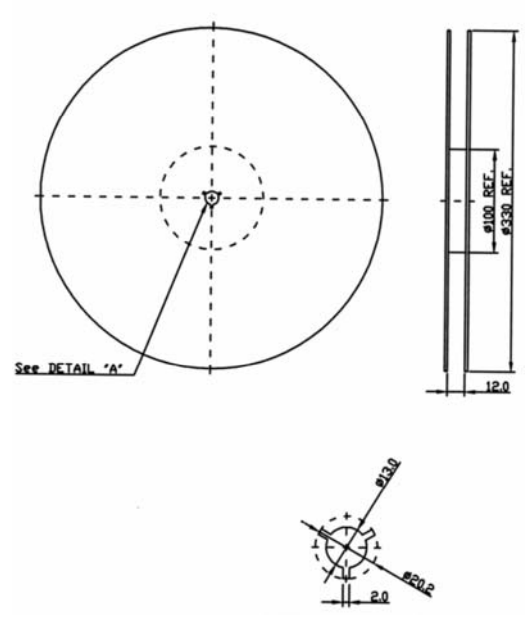


H. PCB Foot Print:

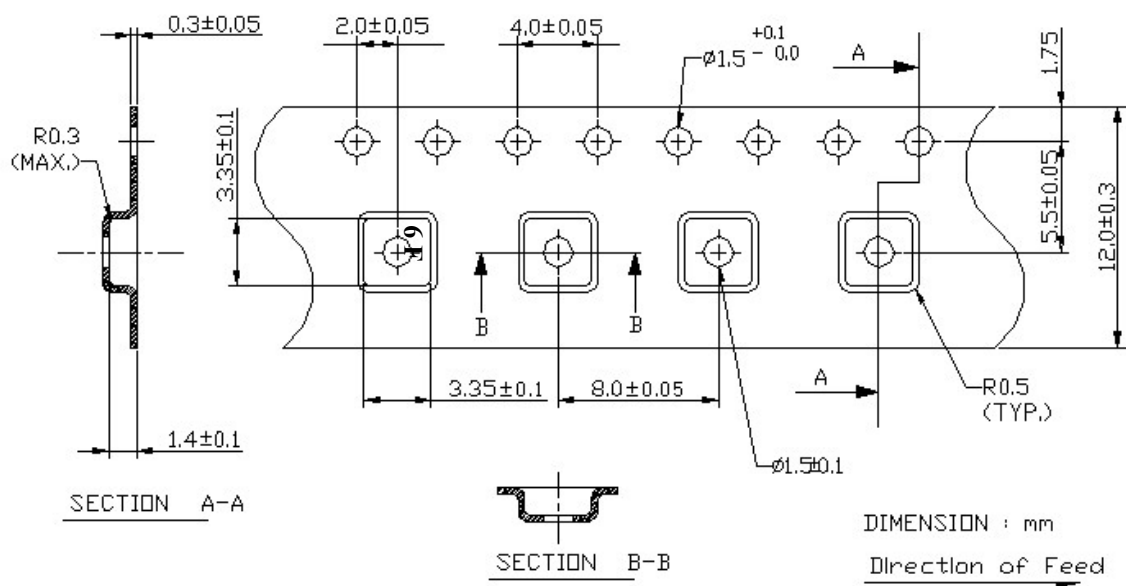


I. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION



H.RECOMMENDED REFLOW PROFILE:

