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

Product Specifications Approval Sheet

Product Description: SAW Resonator 433.92 MHz SMD 3.8X3.8 mm

TST Part No.: TC0170AB (433.92MHz;-50~0KHz)

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Jimmy Han Jimmy Han

Approved by: Francis Chen

Date: 2011/06/17

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 433.92 MHz

MODEL NO.: TC0170AB REV. NO.:2

A. FEATURES:

1. 1-Port Resonator.

RoHS Compliant
Lead free
Lead-free soldering

B. MAXIMUM RATING:

1.Input Power Level: 0 dBm

Electrostatic **S**ensitive **D**evice (**ESD**)

2.DC voltage: 12 V

3.Operating Temperature: -40°C to +85°C

4.Storage Temperature: -40°C to +85°C

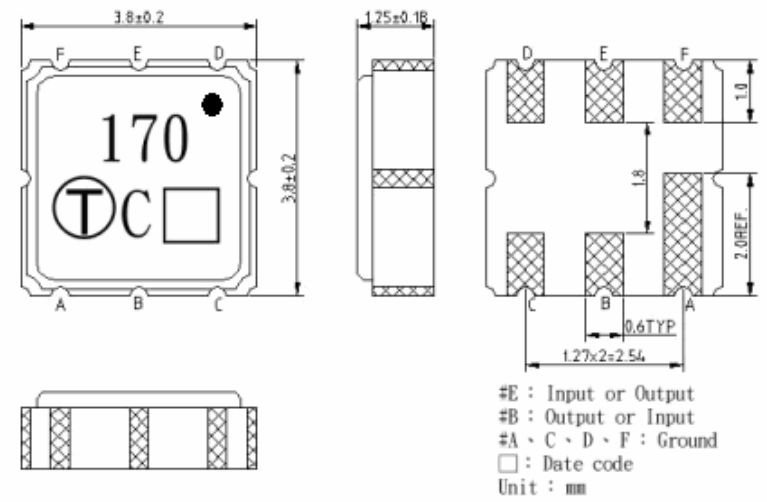
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature T_A=25℃

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fc**	**MHz**	433.870		433.920
Insertion Loss **IL**	**dB**	-	1.6	2.5
Unload quality factor **Q_U**		6000	12000	-
Ageing of fc	**ppm/yr**	-	-	±10
Motional capacitance **C1**	**fF**	-	1.26	-
Motional inductance **L1**	**μH**	-	98.8	-
Motional resistance **R1**	**Ohm**	-	22.2	-
Parallel capacitance **Co**	**pF**	-	2.63	-
Frequency Temperature coefficient (TC_f)	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	10	25	40
Package size		SMD 3.8X3.8X1.2 mm		

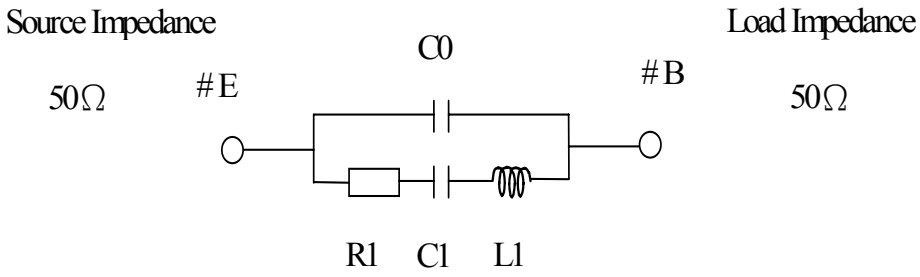
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D.OUTLINE DRAWING:

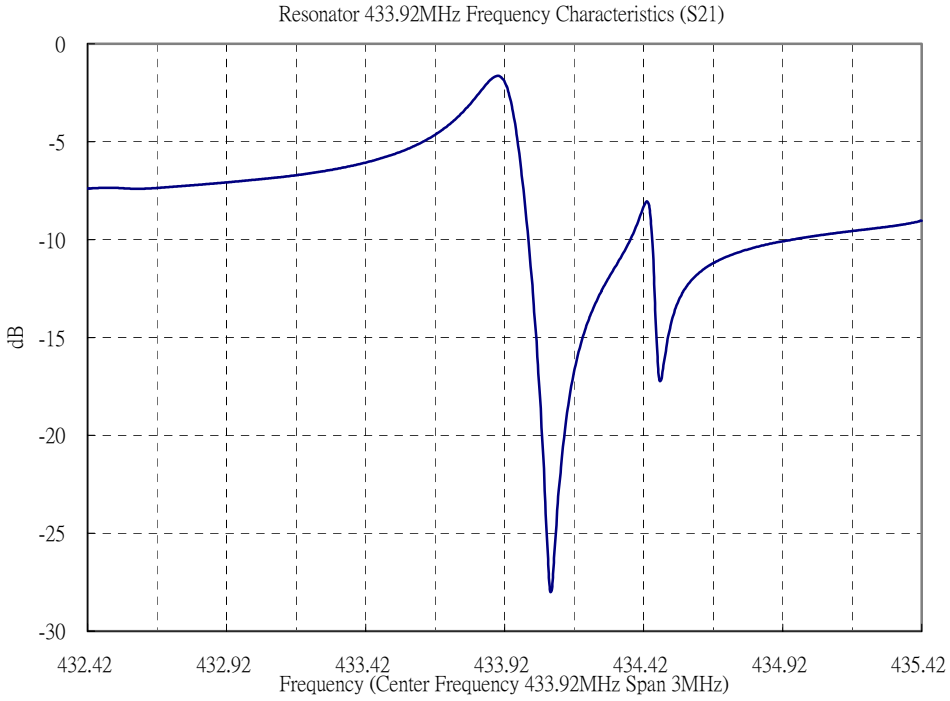


E.EQUVIRENT CIRCUIT:

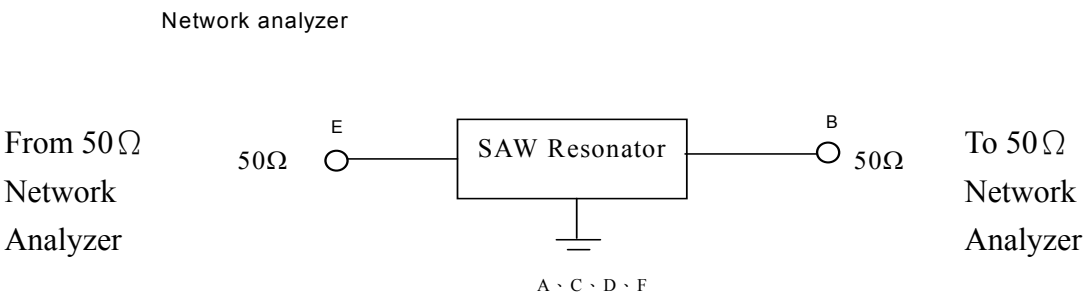
One-Port Resonator:



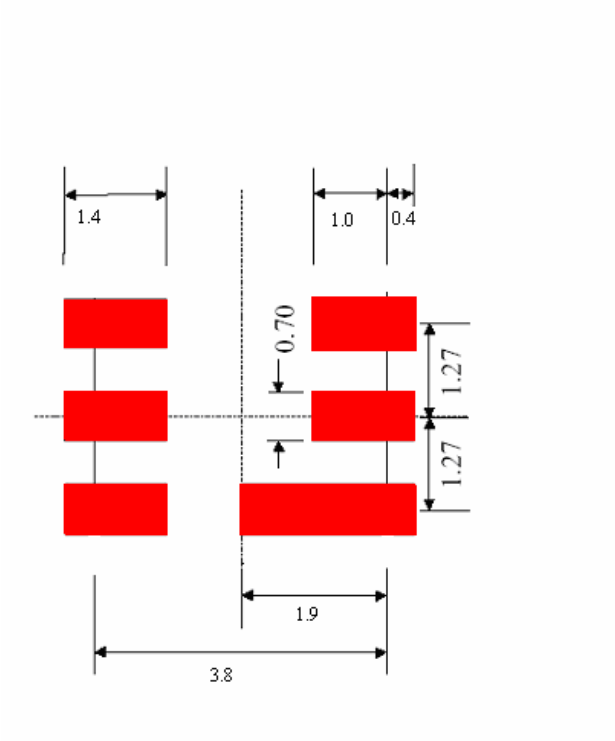
F.FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

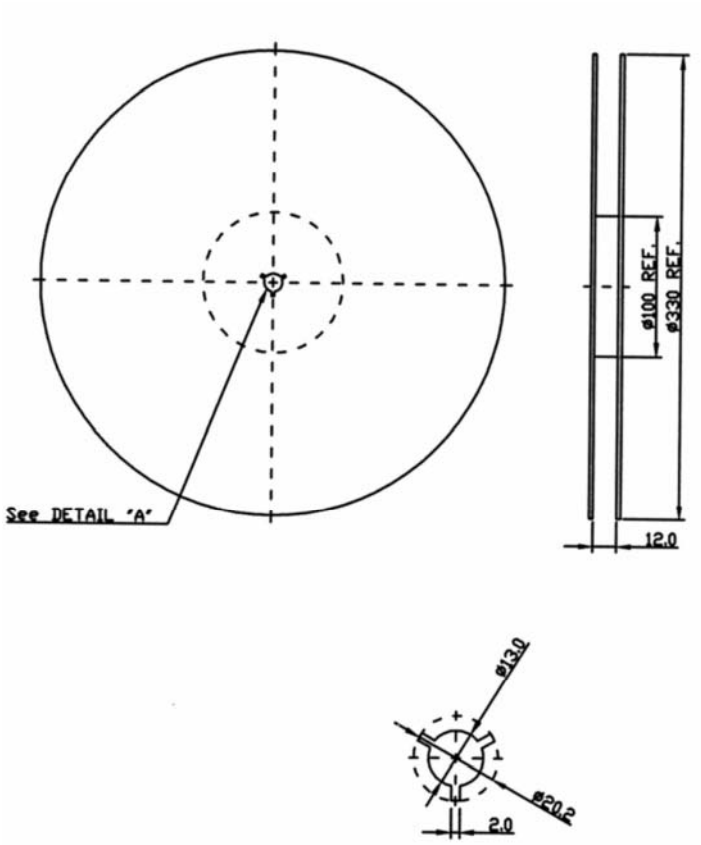


H. PCB Foot Print:



I. PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION

