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 915 MHz SMD 3.8X3.8 mm

TST Parts No.: TC0278A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Asin Lin

Approval by: Francis Chen

Date: 2005/4/06

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SAW Resonator 915 MHz

MODEL NO.: TC0278A REV. NO.:1

RoHS Compliant
Lead free
Lead-free soldering

A. FEATURES:

1. 1-Port Resonator.

B. MAXIMUM RATING:

1.Input Power Level: 0 dBm

2.DC voltage: 3 V

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

4.Storage Temperature: -40°C to +85°C

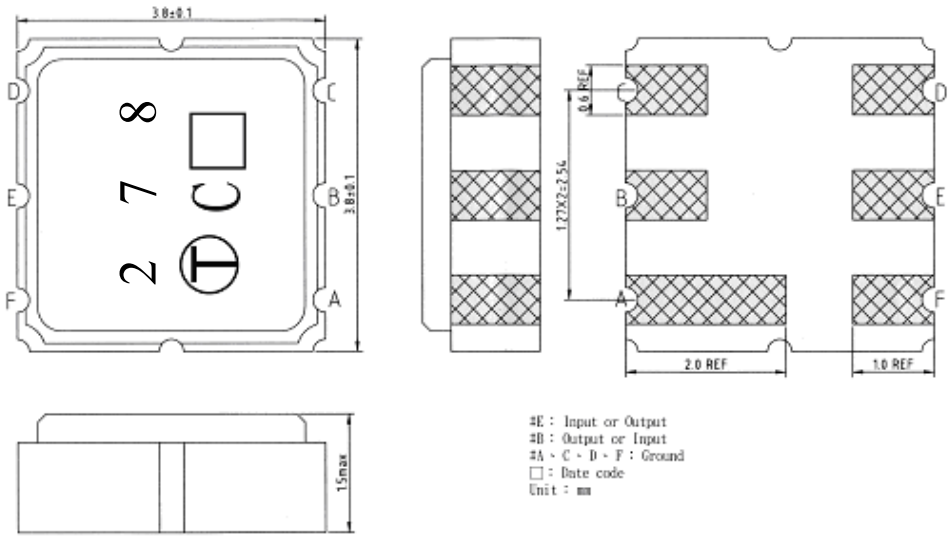
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature T_A=25℃

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fc**	**MHz**	914.9	915	915.1
Insertion Loss **IL**	**dB**	-	1.1	2.0
Unload quality factor **Q_U**		5000	6200	-
Ageing of fc	**ppm/yr**	-	-	±10
Motional capacitance **C1**	**fF**	-	1.39	-
Motional inductance **L1**	**μH**	-	21.8	-
Motional resistance **R1**	**Ohm**	-	20.3	-
Parallel capacitance **Co**	**pF**	-	2.6	-
Frequency Temperature coefficient (TC_f)	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	10	25	40
Package size	SMD 3.8X3.8X1.4mm			

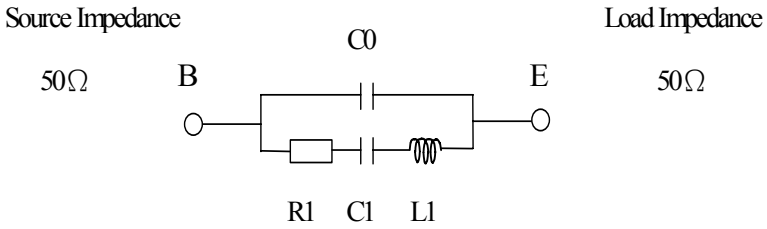
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D.OUTLINE DRAWING:

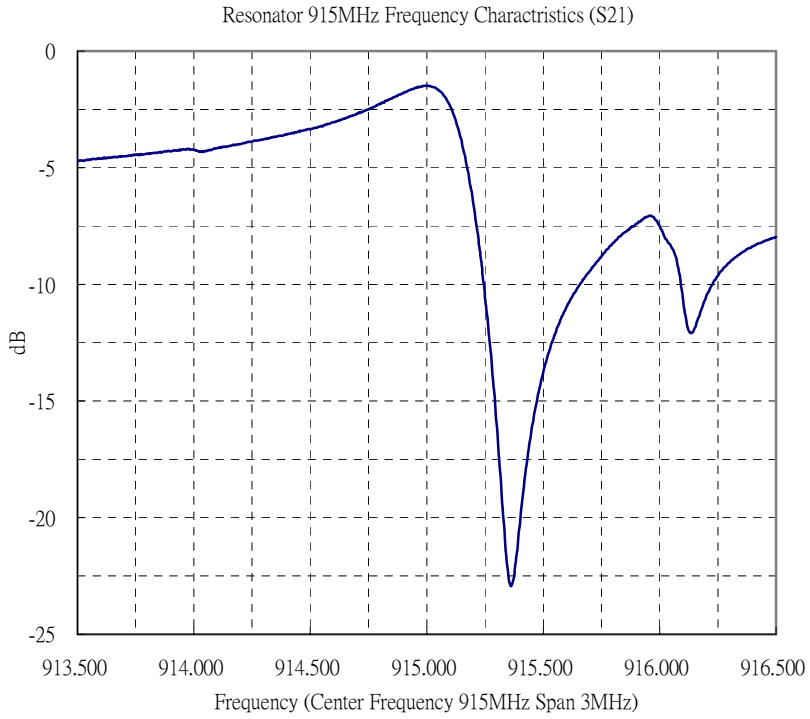


E.EQUVIRENT CIRCUIT:

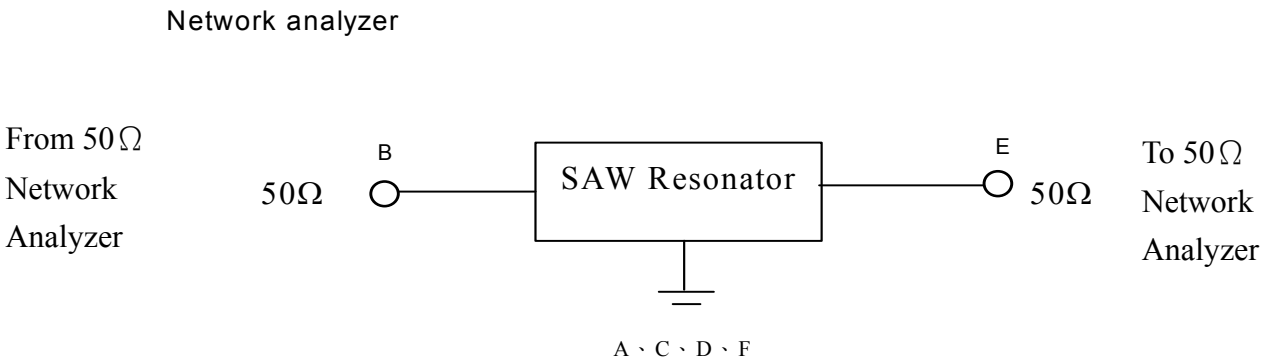
One-Port Resonator:



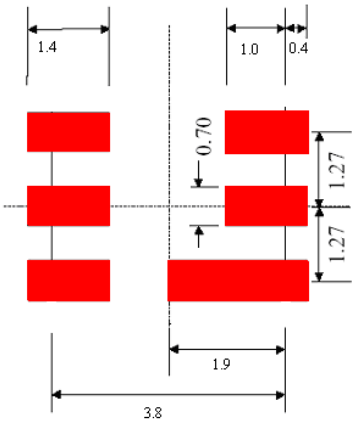
F.FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

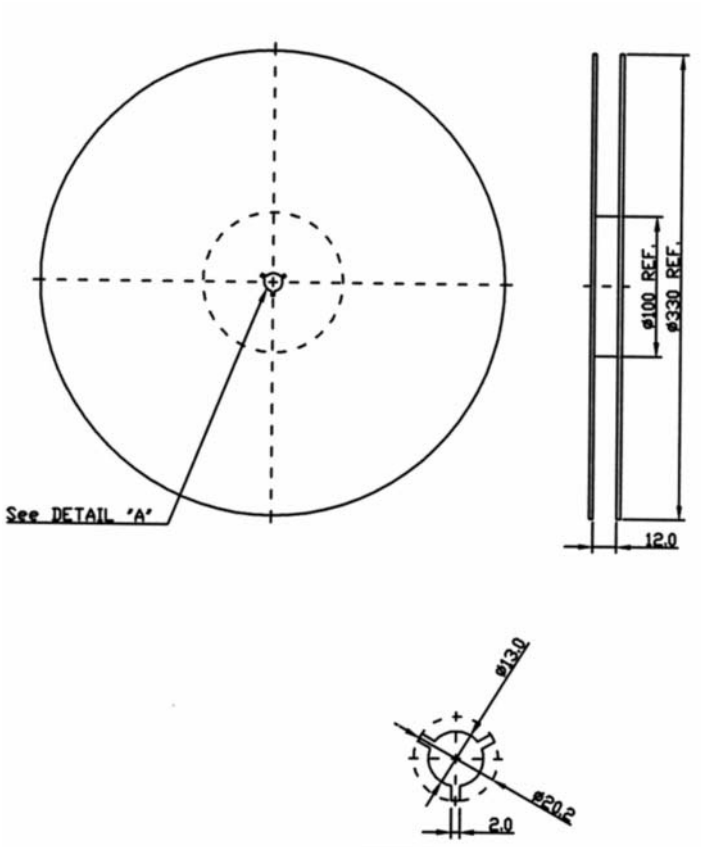


H.PCB FOOTPRINT

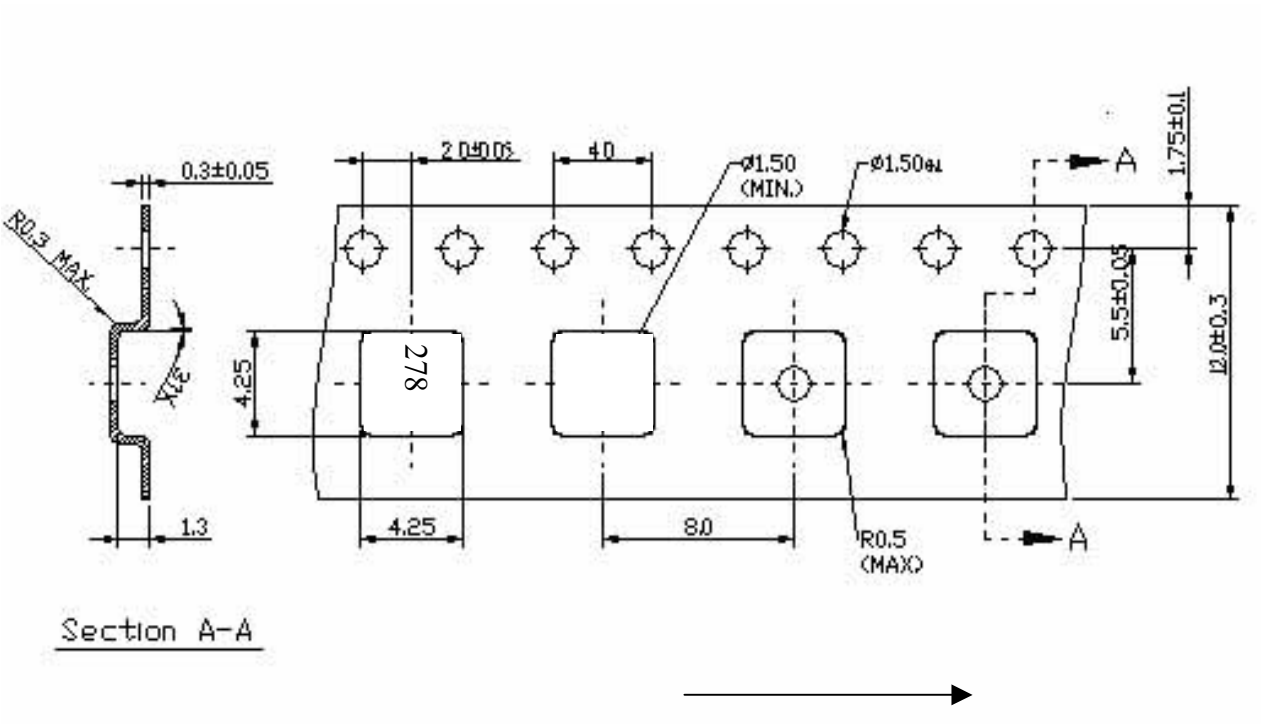


I. PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



Direction of feed