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: STW Resonator 1000 MHz SMD 3.8X3.8 mm

TST Part No.: TD0129A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Michael Yang _____ Michael 9/21 12

Approved by:_____ Francis Chen _____

Date:_____ 2012/09/18 _____

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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STW Resonator 1000 MHz

MODEL NO.: TD0129A REV. NO.: 1

A. FEATURES:

1. Two-Port Resonator.

RoHS Compliant
Lead free
Lead-free soldering

B. MAXIMUM RATING:

1.Input Power Level: 3 dBm

2.DC voltage: 12 V

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

4.Storage Temperature: -40°C to +85°C

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

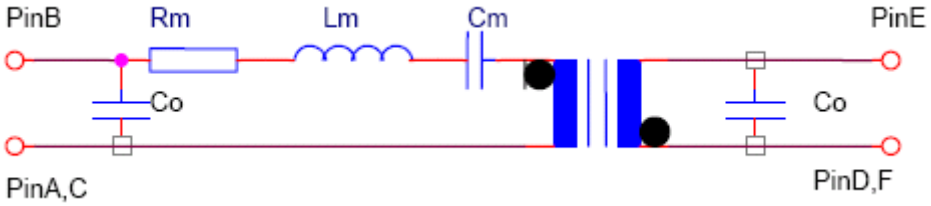
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature T_A=25℃

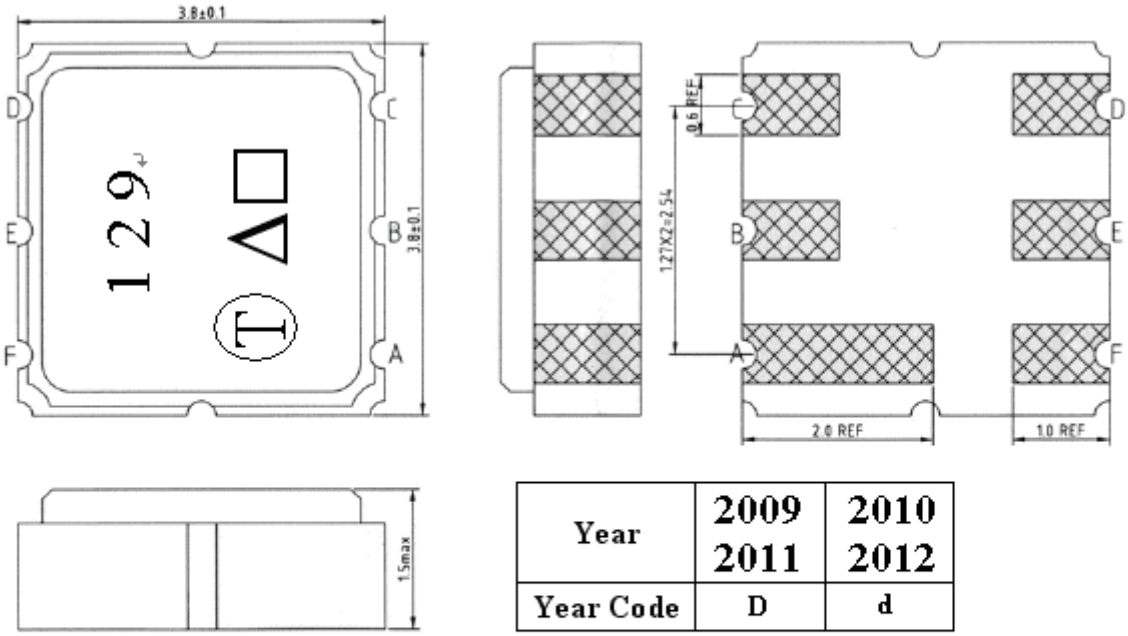
Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fr**	**MHz**	999.800	1000	1000.200
Insertion Loss **IL**	**dB**	-	6	8
Unloaded Quality factor		-	4700	-
Ageing of Fc	**ppm**	-	-	10/year
Rejection				
990 MHz ~ 999MHz		18	23	
1001 MHz ~ 1010MHz		18	23	
Motional capacitance **C1**	**fF**	-	0.36	-
Motional inductance **L1**	**μH**	-	70	-
Motional resistance **R1**	**Ohm**	-	127	-
Parallel capacitance **Co**	**pF**	-	2.3	-
Temp.coeff.	**ppm/c*2**	-	0.05	-
Turnover To	**deg.C**	10	25	40
Package size		SMD 3.8X3.8X1.4mm		

D. EQUIVALENT CIRCUIT:

Two-Port Resonator:



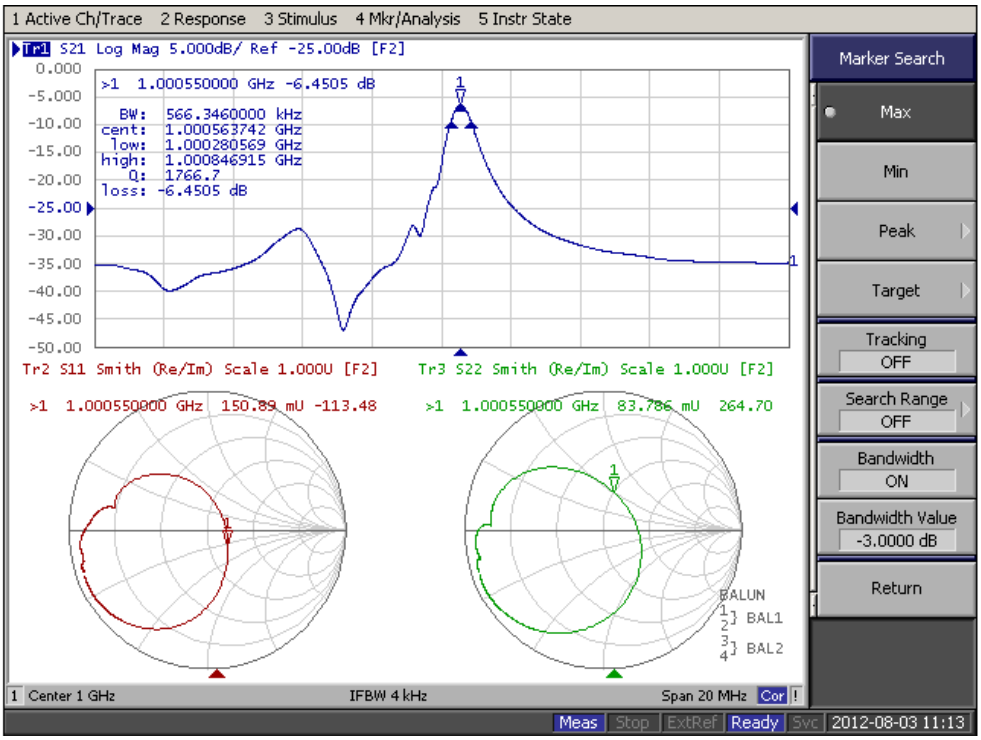
E.OUTLINE DRAWING:



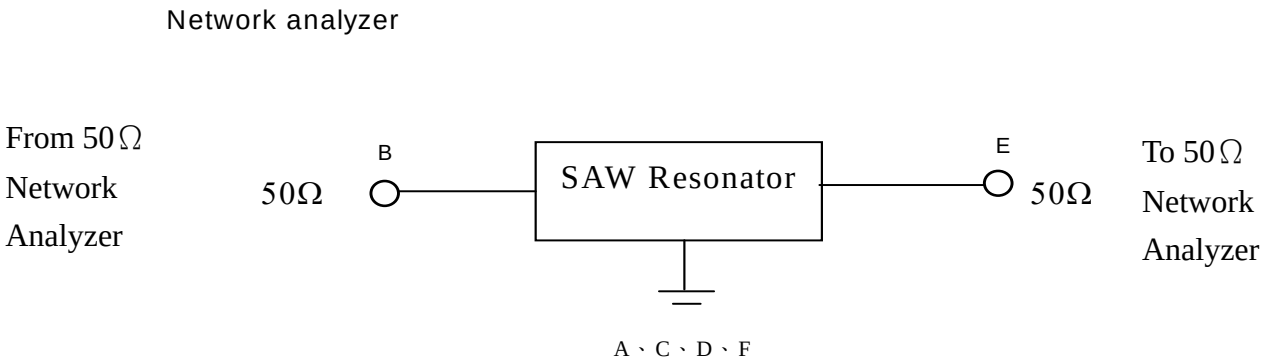
Year	2009 2011	2010 2012
Year Code	D	d

#E：Input or Output
#B：Output or Input
#A、C、D、F：Ground
Δ：Year Code
□：Data Code(Follow the table provided by planer each year)

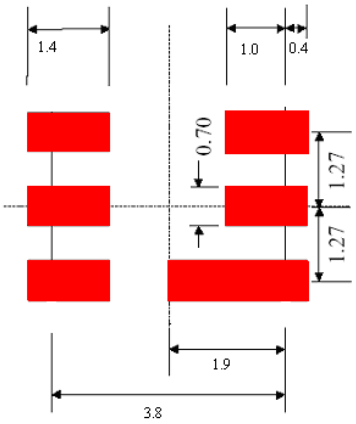
F.FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

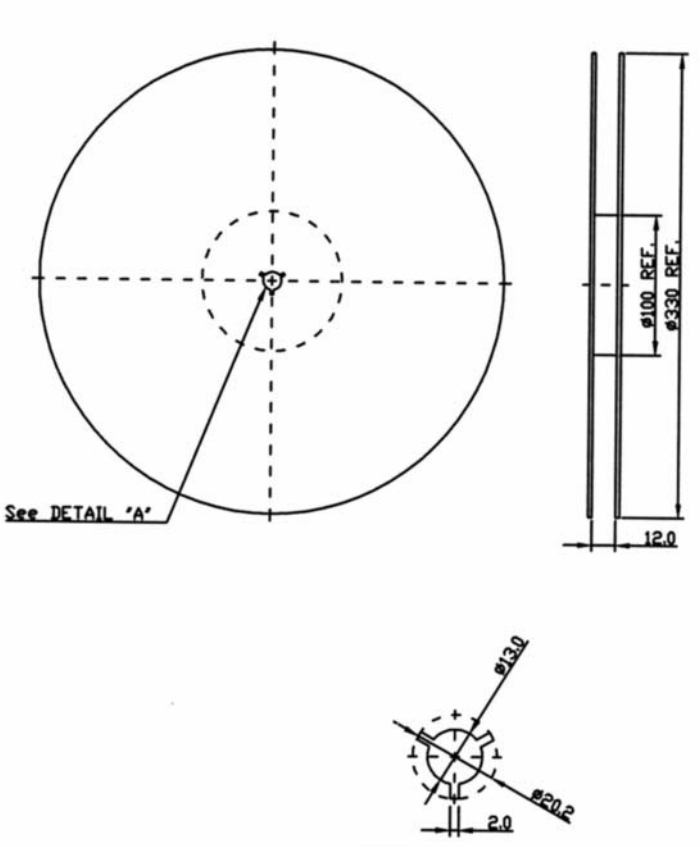


H.PCB FOOTPRINT

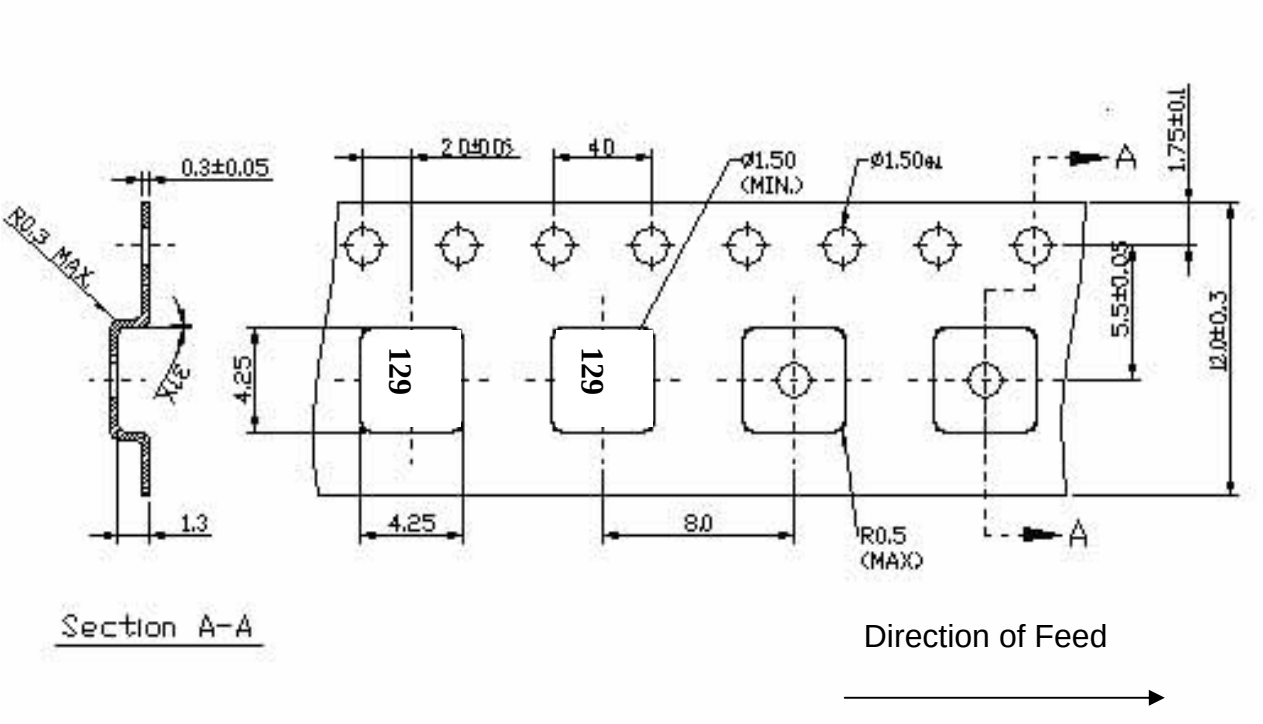


I. PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



J. REFLOW PROFILE