



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 Filter 800MHz SMD 3.0X3.0 mm(BW=1.8MHz)

TST Part No.: TA0975A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: Paul Ni *Pan Ni*

Approved by: Francis Chen *Francis Chen*

Date: 2011/01/21

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 Filter 800 MHz

MODEL NO.: TA0975A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 6 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

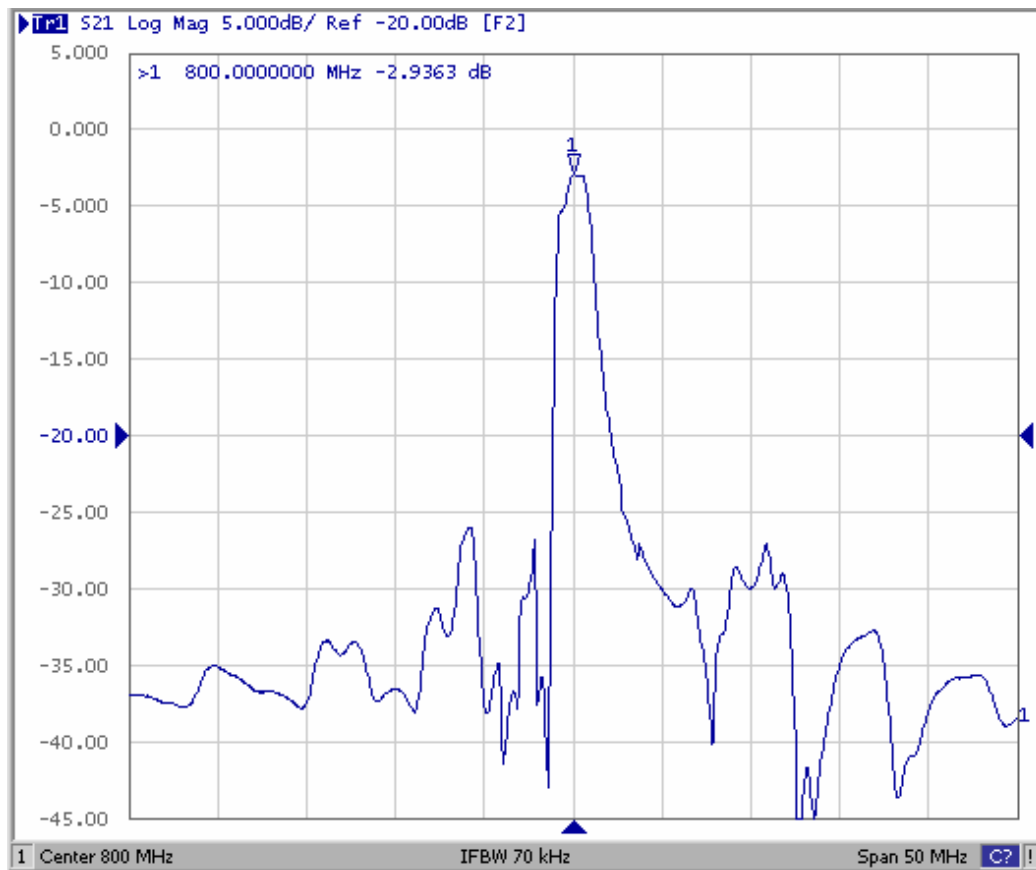
Reference temperature: 25°C

Item	Min.	Typ.	Max.
Center frequency F_c (MHz)	-	800	-
Insertion Loss IL (dB)	-	2.9	4.2
Pass band (relative to IL) 799.5~800.5MHz (dB)	-	2.5	5.0
Pass bandwidth (relative to ILmin) BW3 (KHz)	1500	1800	-
Attenuation:(relative to IL) (dB)			
10~700 MHz (dB)	35	39	-
700~780 MHz (dB)	29	33	-
780~797 MHz (dB)	25	29	-
803~814 MHz (dB)	18	22	-
814~900 MHz (dB)	26	30	-
900~1200 MHz (dB)	37	41	-
Impedance at F_c ; Input $Z_{IN}=R_{IN}/C_{IN}$ Output $Z_{OUT}=R_{OUT}/C_{OUT}$	832Ω // 2 pF 832Ω // 2 pF		

Note1. The standard definitions is in JIS C 6703

C. Frequency Characteristics :

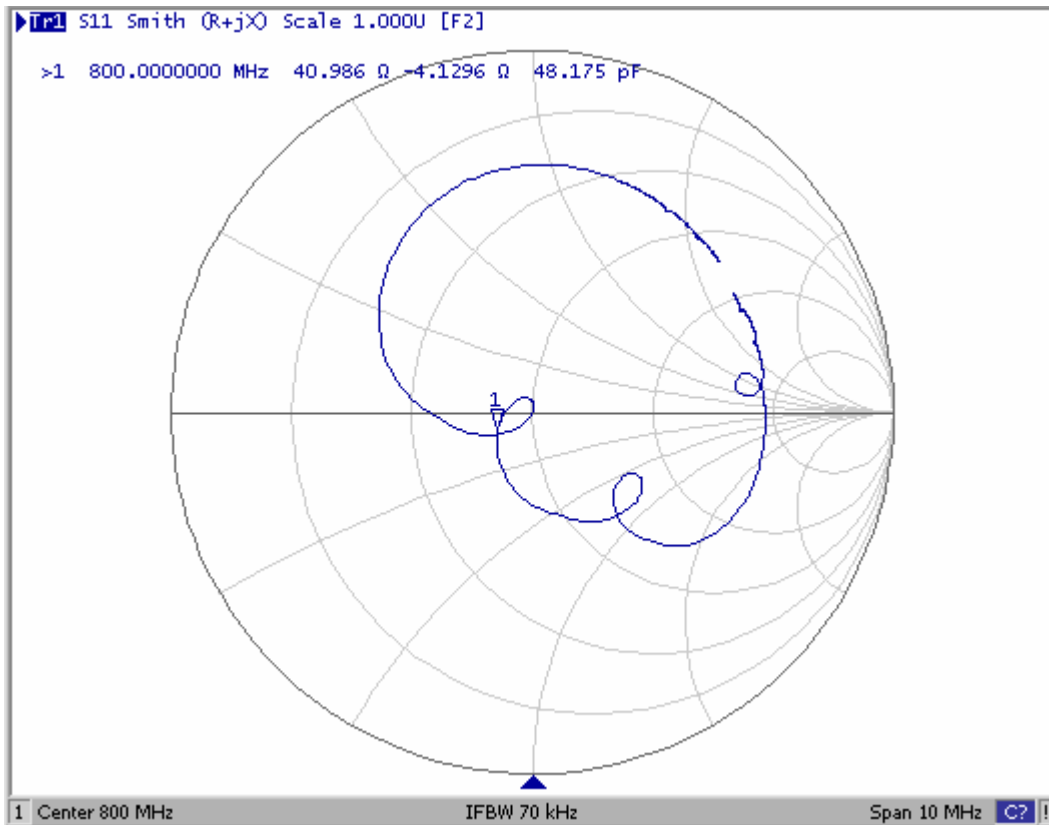
(1) wide band Response: (span 50MHz)



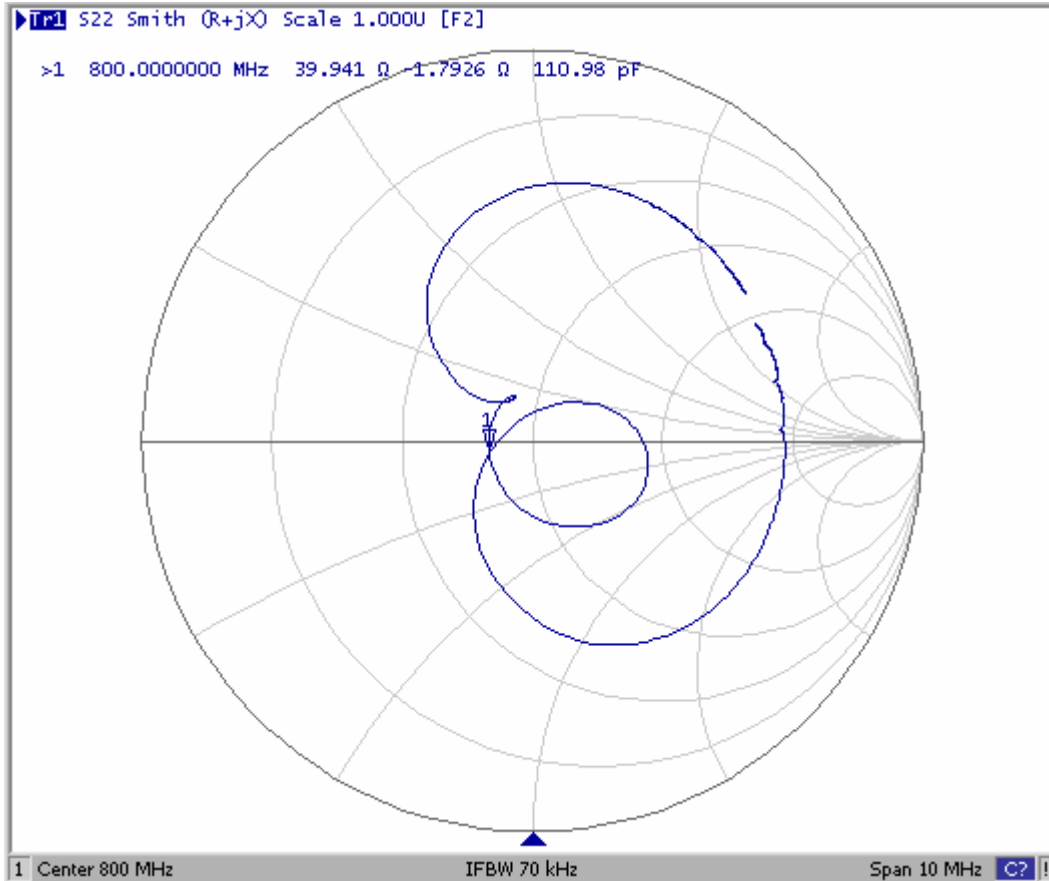
(2) Pass band Response:(span 4MHz)



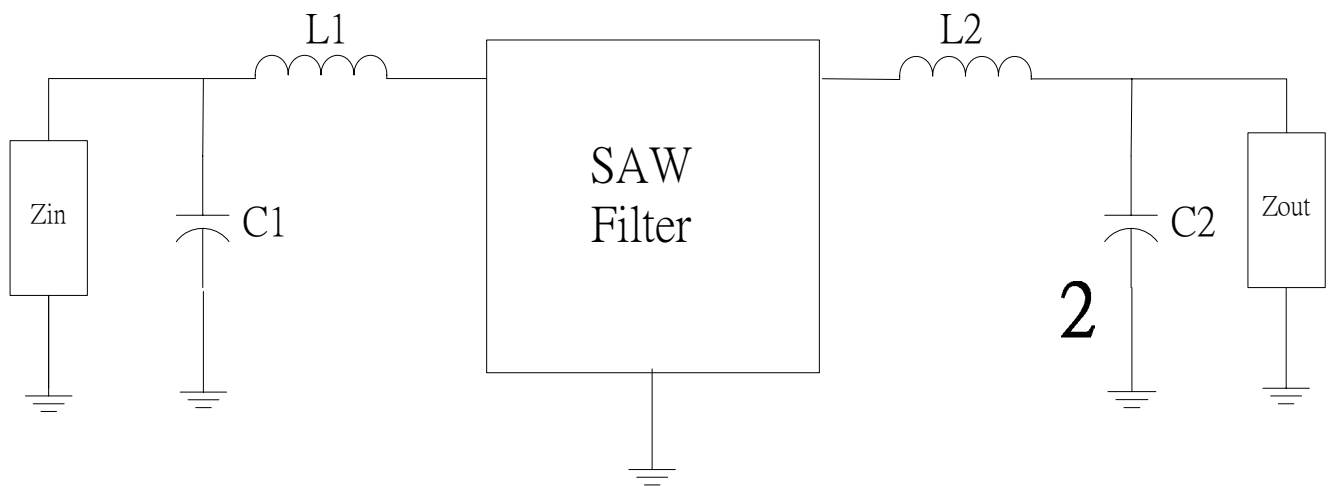
(3) S11 Smith-chart: (span 50MHz)



(4) S22 Smith-chart: (span 50MHz)



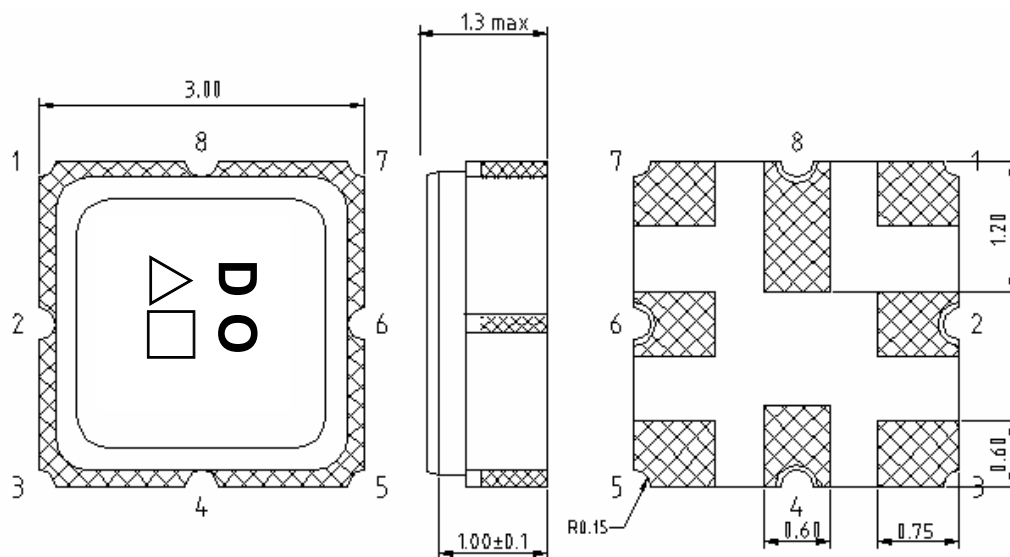
D. MEASUREMENT CIRCUIT:



$$Z_{in}=Z_{out}=50\Omega$$

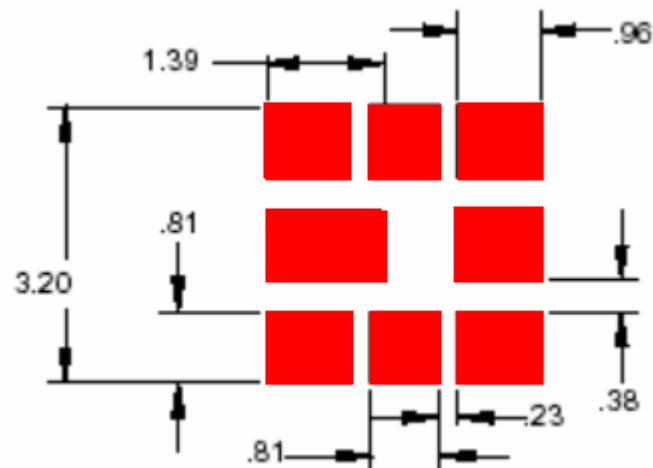
$$L1=L2=15\text{nH}, C1=C2=3.9\text{pF}$$

E. OUTLINE DRAWING:



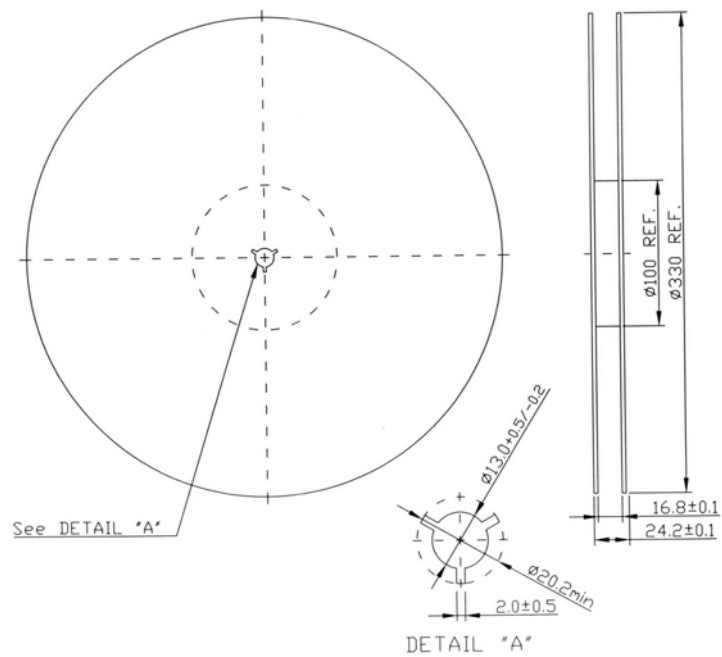
- 1: Input or Input ground
 - 2: Input ground or Input
 - 5: Output or Output ground
 - 6: Output ground or Output
 - 3,4,7,8: Ground
 - △: Year code : 7 for 2007, 8 for 2008,...
 - : Date code : Provided by planer each year
- Unit: mm

F. PCB FootPrint

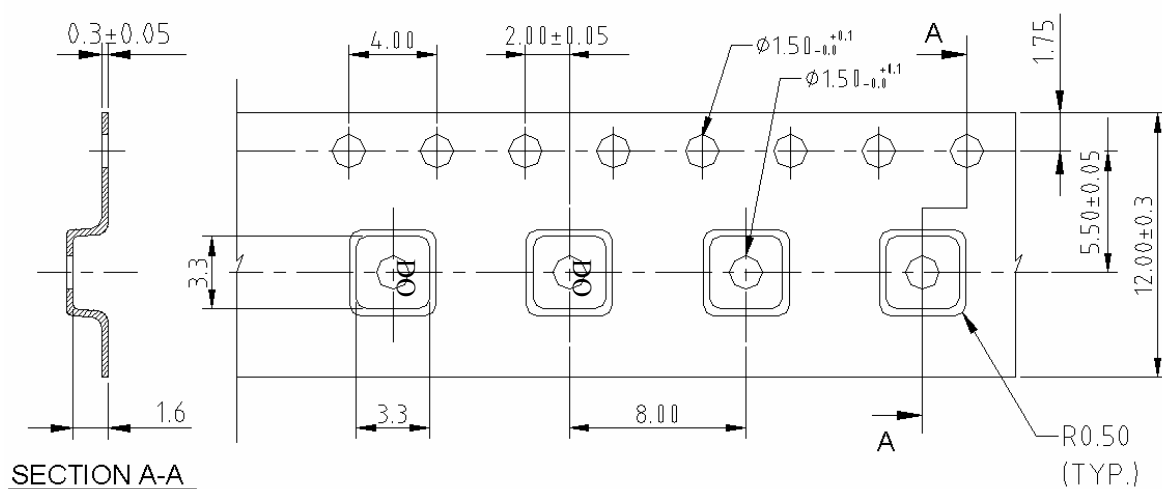


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

