



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW Filter 502.5MHz 35MHz BW 5.0×5.0mm

TST Parts No.: TB0990A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Andy Yu *Andy*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 06/08/2011

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 502.5 MHz(BW=35MHz) 5.0x5.0mm

MODEL NO.: TB0990A

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

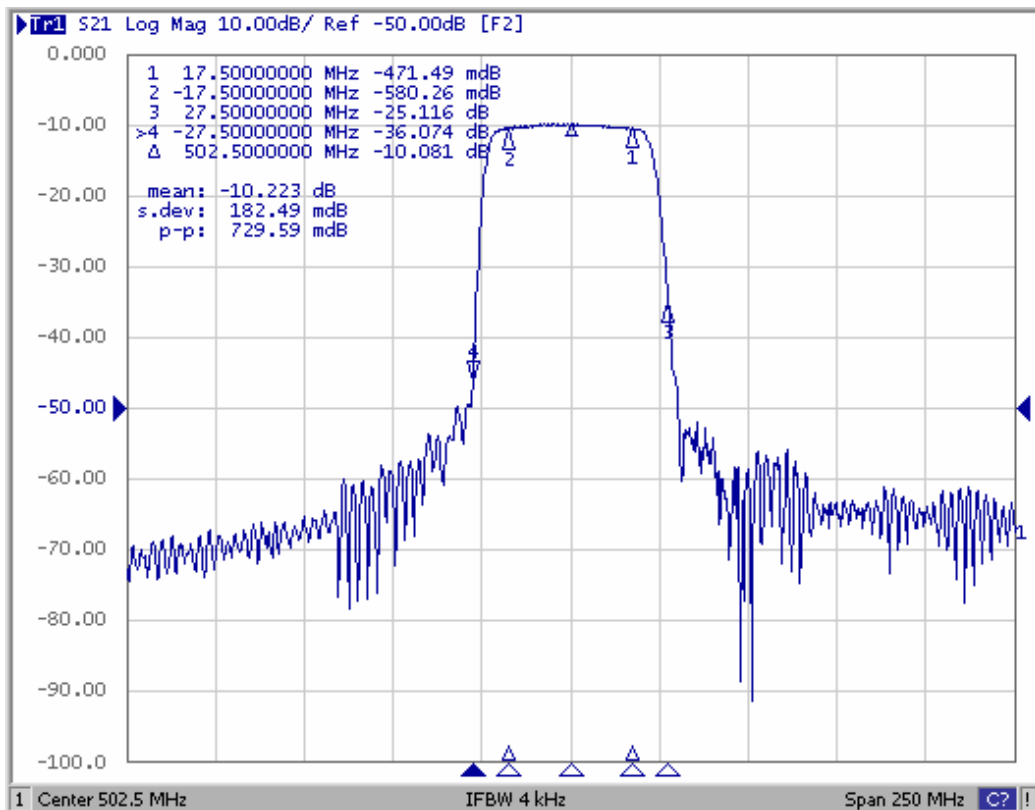
B. Characteristics :

Ambient Temperature: 25 °C

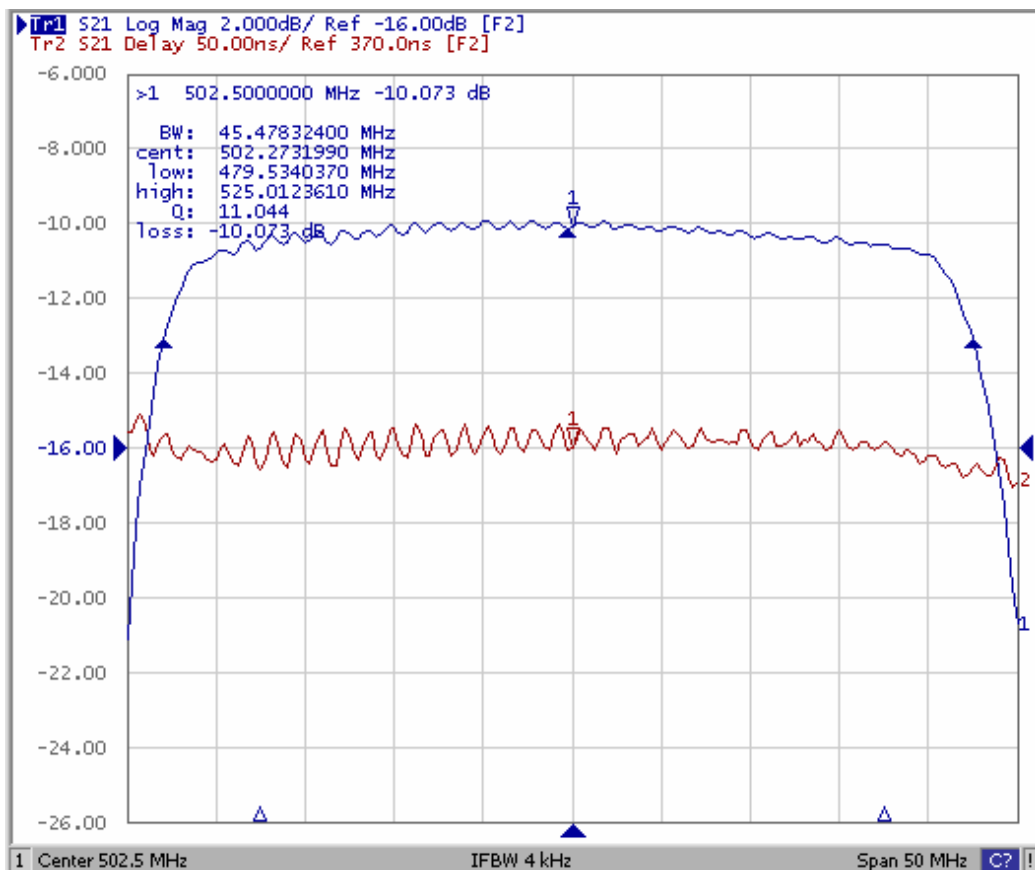
Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	502.5	-
Max Insertion Loss	dB	-	10.2	11.5
3dB Bandwidth	MHz	38	45	
Pass band Ripple Fc±17.5MHz	dB	-	0.7	0.8
Relative Attenuation: (Reference level from Max IL)				
Fc - 27.5MHz	dB	35	36	-
Fc + 27.5MHz	dB	20	26	-
Temp Coefficient ppm/° C	-	-	-94	-

D. FREQUENCY CHARACTERISTICS :

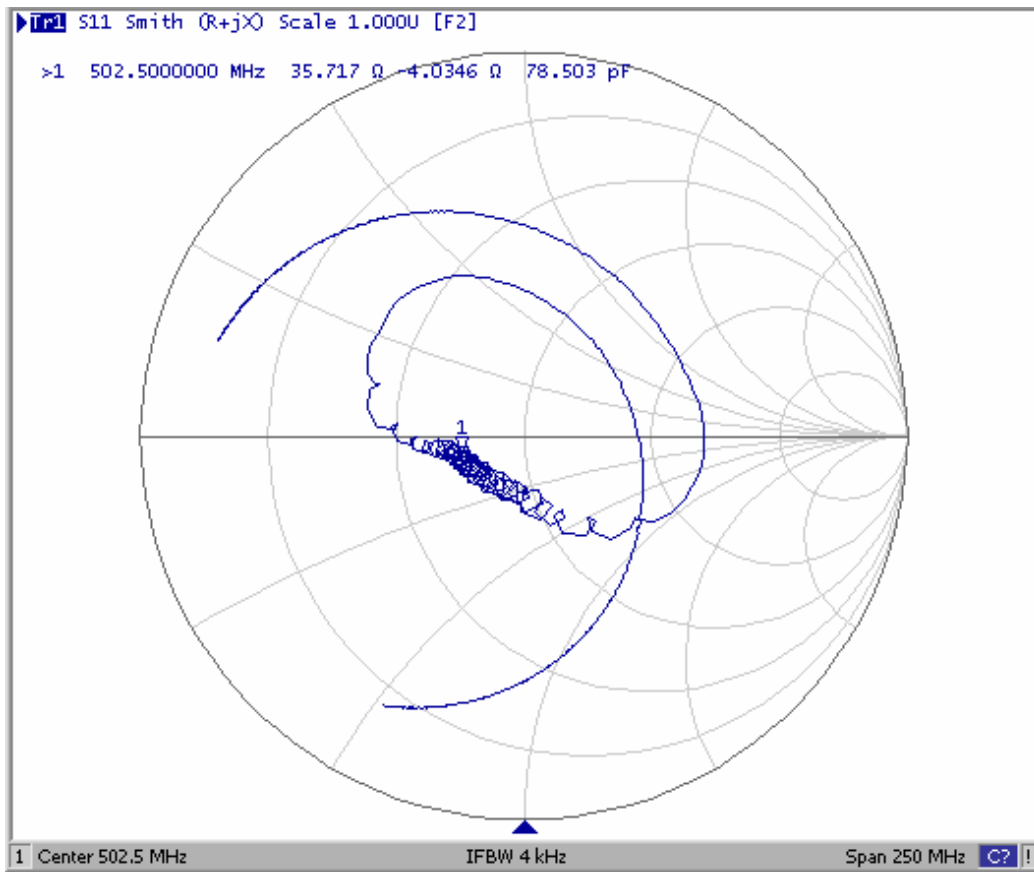
1.S21 Response: (span : 250MHz)



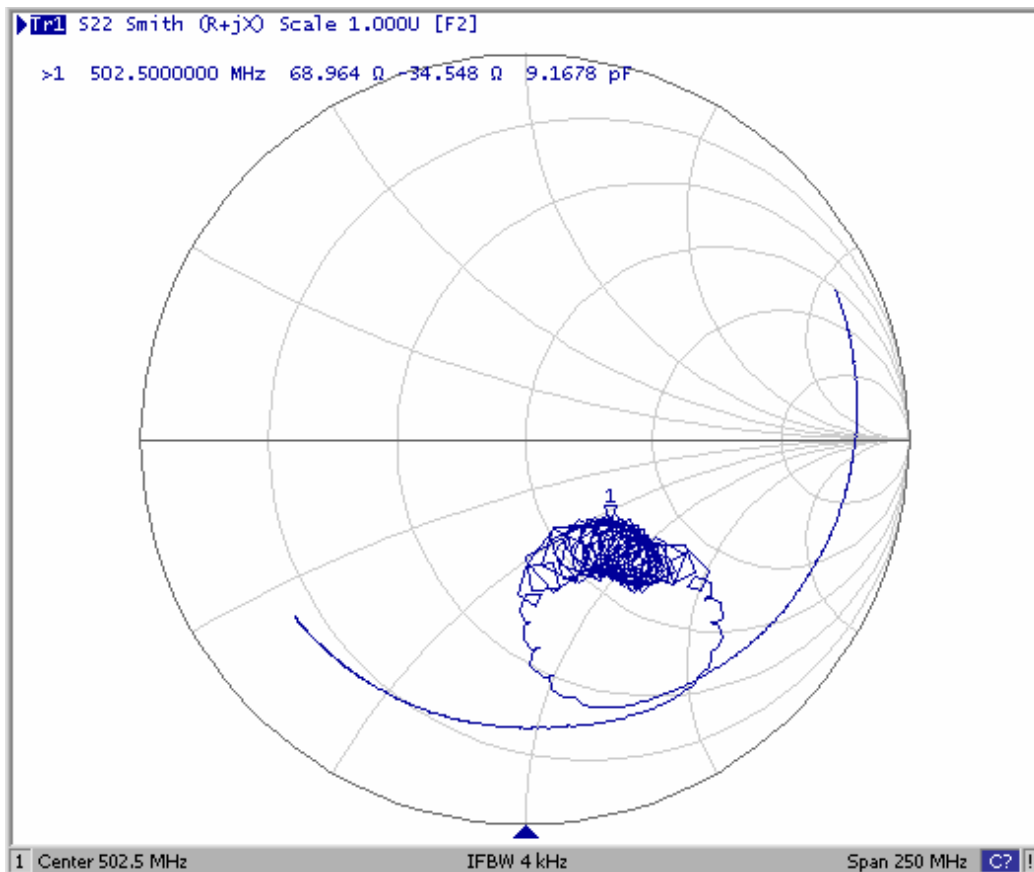
2. Pass-band Response: (span : 50MHz)



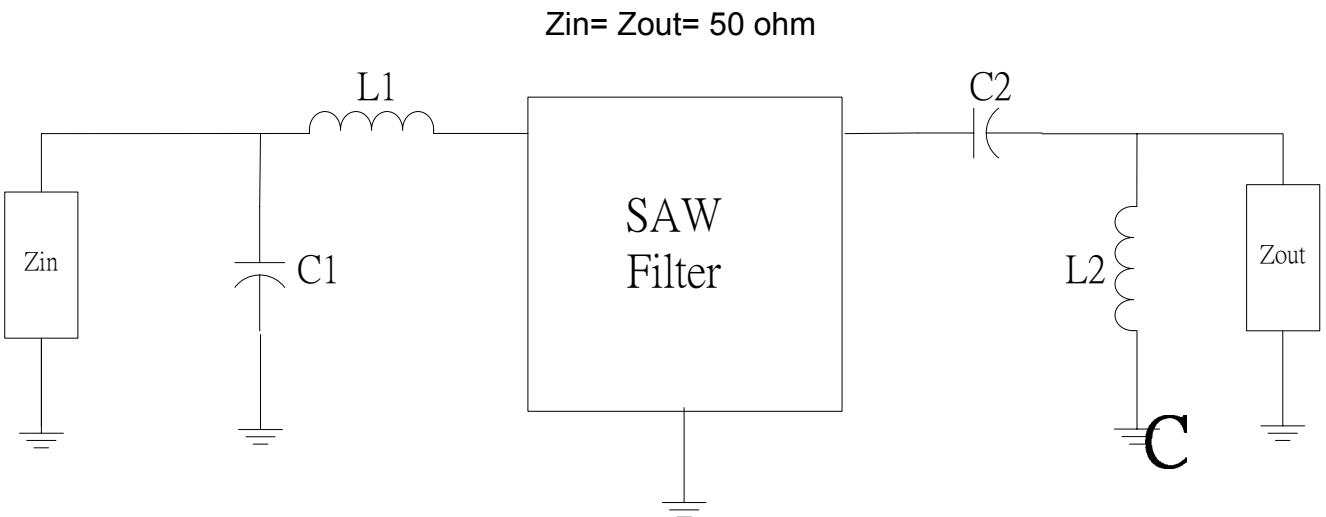
3. S11 Smith Chart: (span : 250MHz)



4. S22 Smith Chart (span : 250MHz)

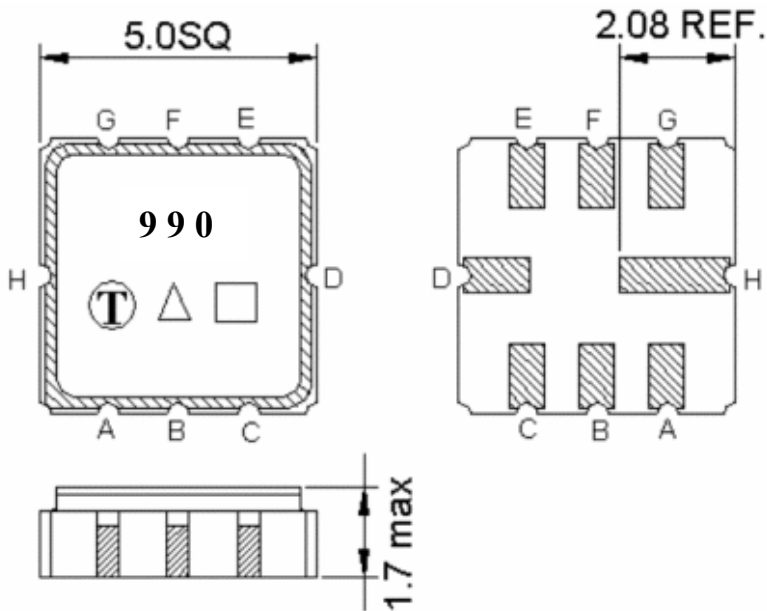


E. MEASUREMENT CIRCUIT



$$L1=6.8\text{nH}, C1=10\text{pF}; L2=18\text{nH}, C2=12\text{pF}$$

F. OUTLINE DRAWING:



Pin C: RF input

Pin G: RF output

Pin H,D: Case Ground

Pin A, B, E, F: Ground

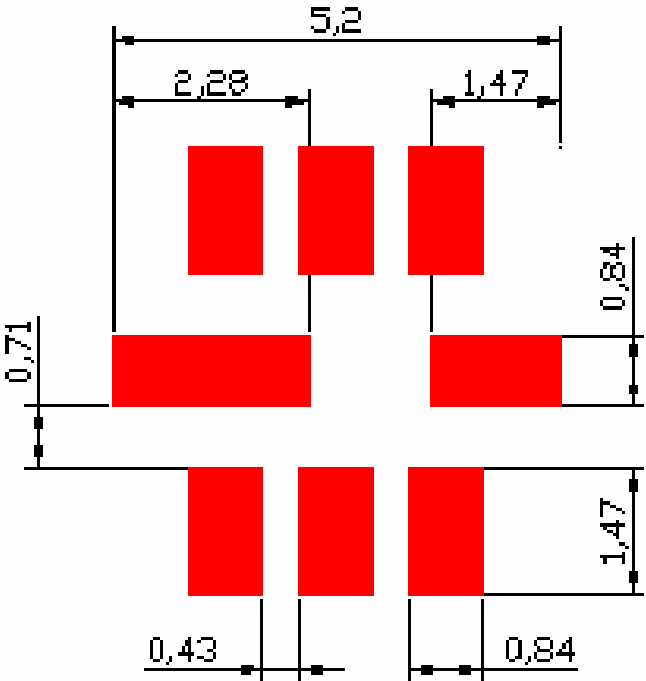
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

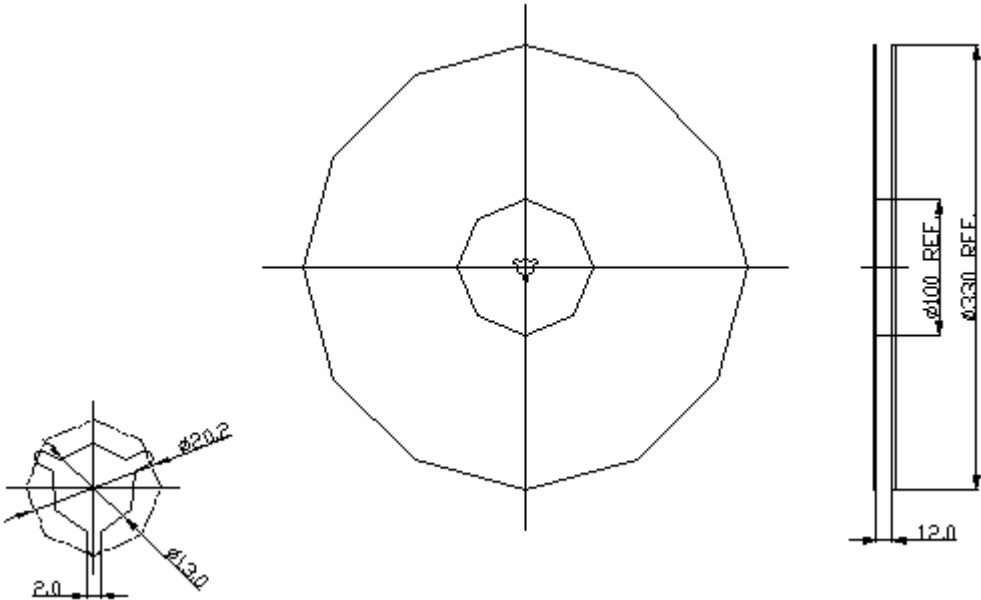
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PCB Footprint

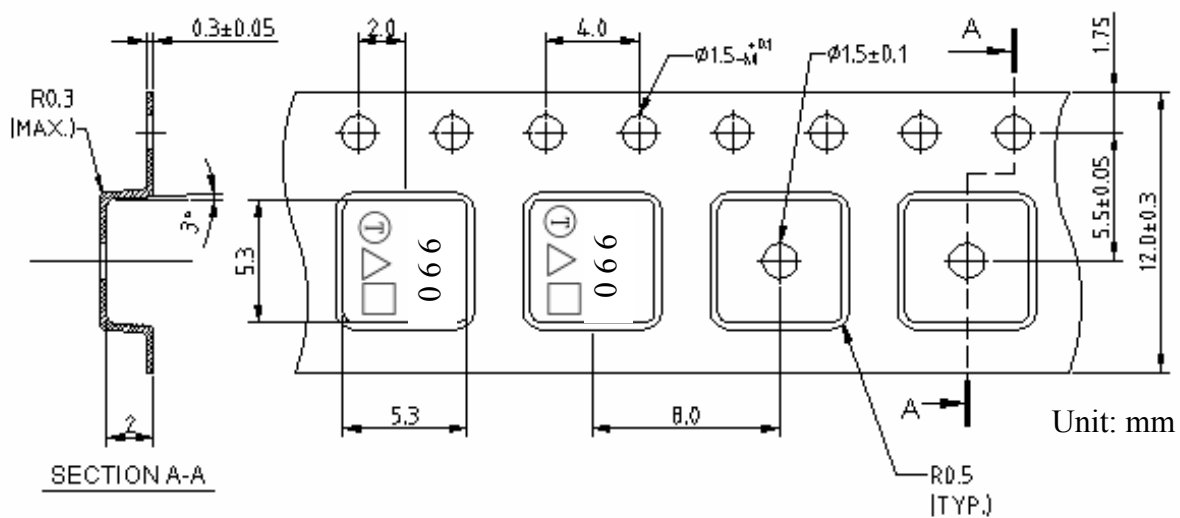


H. Packing:

(1). REEL DIMENSION:



(2). TYPE DIMENSION:



I. RECOMMENDED REFLOW PROFILE:

