



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 265.5 MHz (package 5.0mm x 7.0 mm)

TST Parts No.: TB0900A

Customer Parts No.: _____

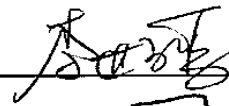
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 10 / 11 / 2010

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 265.5MHz 29MHz BW (SMD 5.0×7.0 mm)

MODEL NO.: TB0900A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	265.5	-
Insertion Loss, IL	dB	-	8.1	12.0
-1dB bandwidth	MHz	29	32	-
Passband Ripple F_c±11MHz	dB	-	0.5	1.0
Attenuation:(Reference level from Min IL)				
10MHz ~ 185MHz	dB	40	62	-
185MHz ~ 215MHz	dB	40	58	-
310MHz ~ 340MHz	dB	40	50	-
340MHz ~ 1000MHz	dB	40	60	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 200MHz)

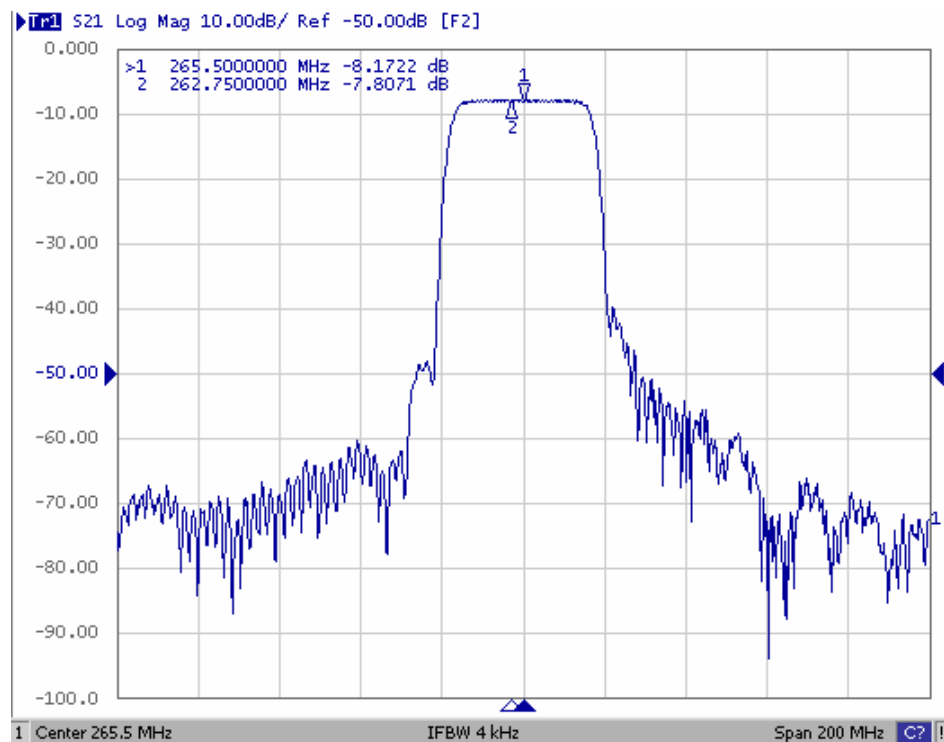


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

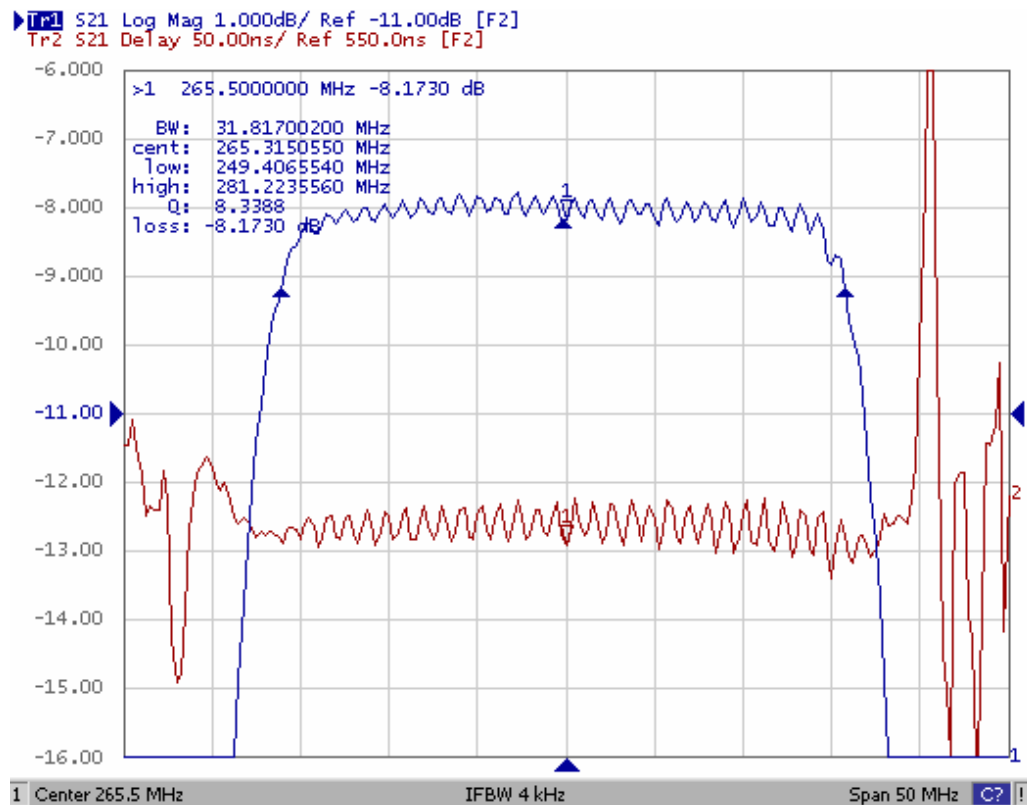
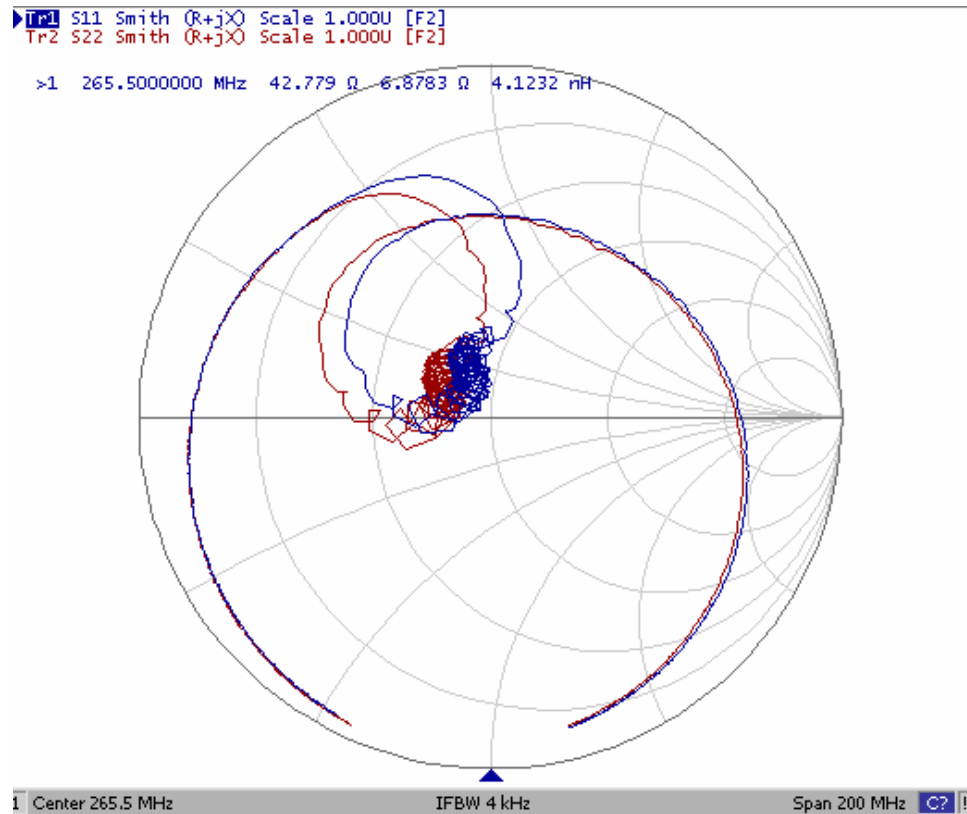


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div
Vertical: 50ns/Div

(3) Smith Chart:



(4) Wide band Response:(span 1000MHz)

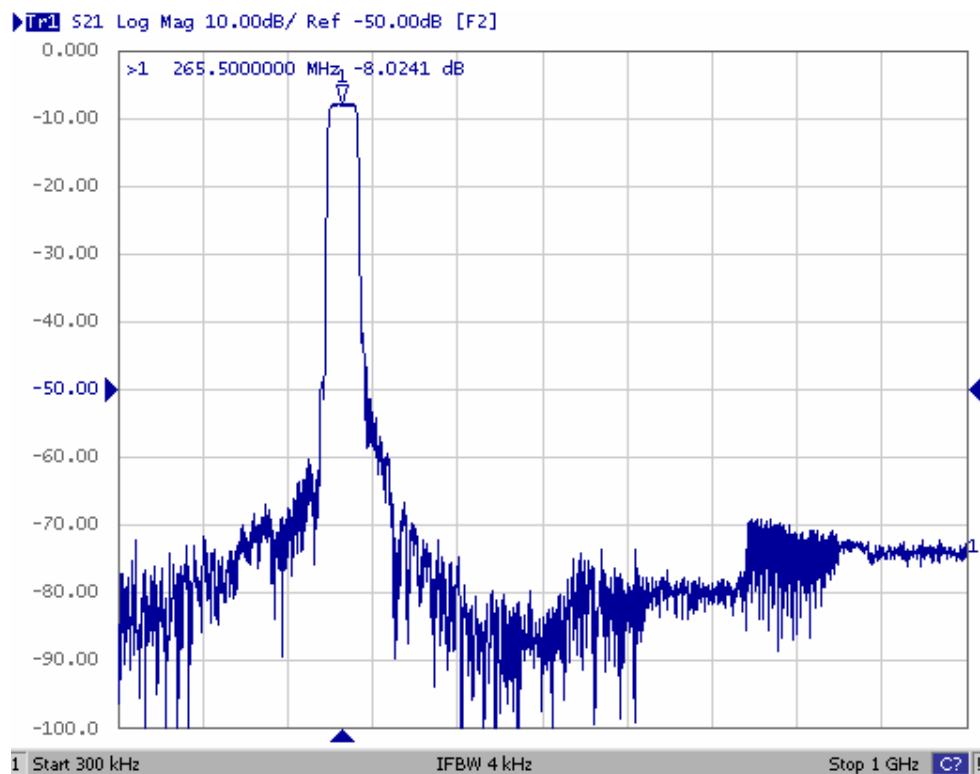
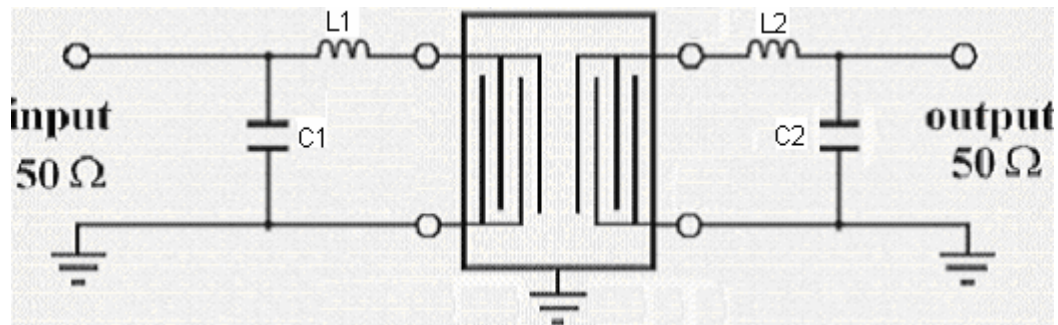


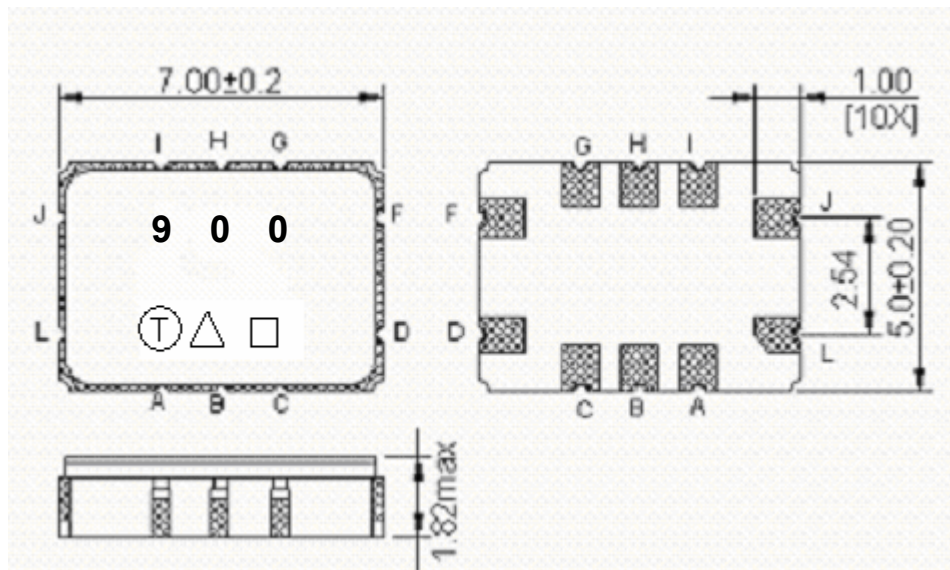
Fig4. Horizontal: 100MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



$$L1=L2=47\text{nH} \quad C1=C2=10\text{pF}$$

E. Outline Drawing:



Pin J –RF input

Pin D –RF output

Pin A,B,C,F,G,H,I,L - Ground

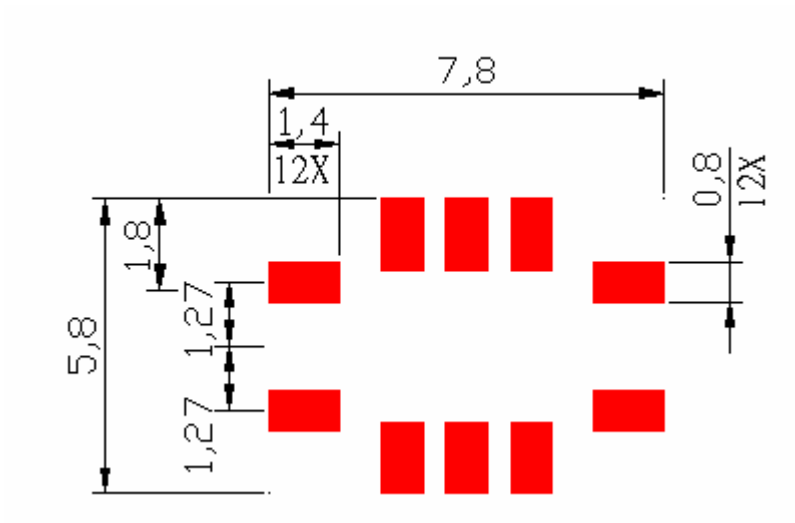
□ : Week Code (Follow the table from planner each year)

Unit : mm

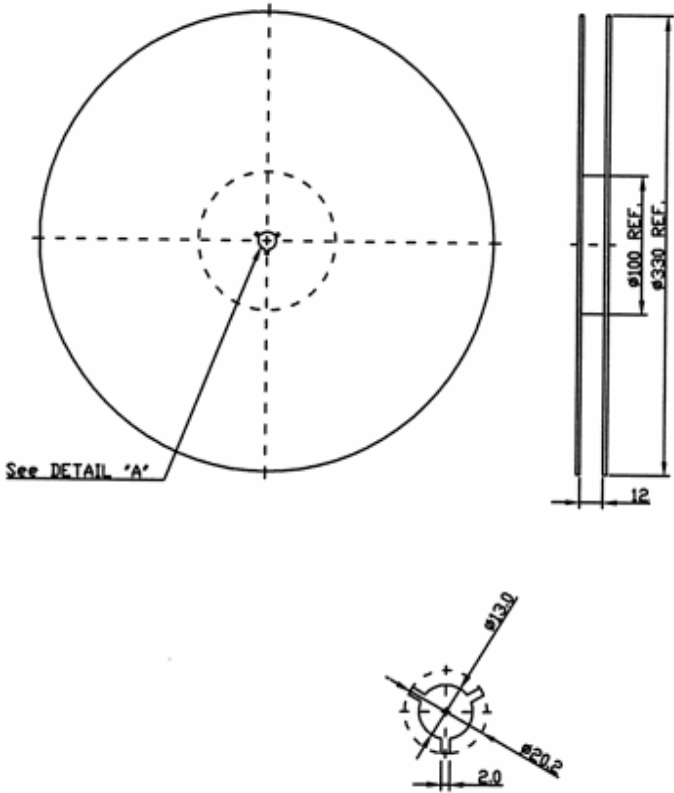
△ : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

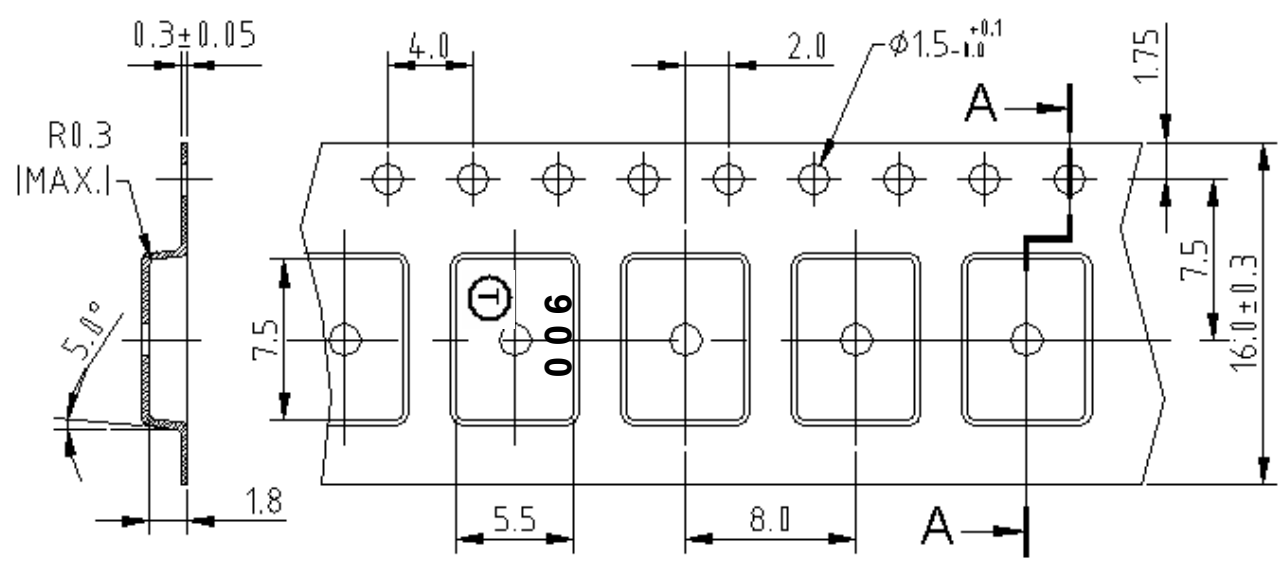
F. PCB Footprint:



G. PACKING:
1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE_:

