



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: 753.5 MHz 78MHz BW SMD 5.0 x 5.0mm SAW IF Filter

TST Parts No.: TB0984A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 05 / 25 / 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 753.5MHz 82MHz BW (SMD 5.0×5.0 mm)

MODEL NO.: TB0984A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 60°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

Electrostatic Sensitive Device

B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, F_c	MHz	-	753.5	-
Insertion Loss, IL	dB	-	13.5	15.0
-1dB bandwidth	MHz	78	82	-
Passband Ripple F_c± 37MHz	dB	-	0.7	1.0
Attenuation:(Reference level from Min IL)				
10MHz ~ 600MHz	dB	40	50	
600MHz ~ 680MHz	dB	40	47	
820MHz ~ 895MHz	dB	40	43	
895MHz ~ 1000MHz	dB	40	45	
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Narrow band Response:(span 400MHz)

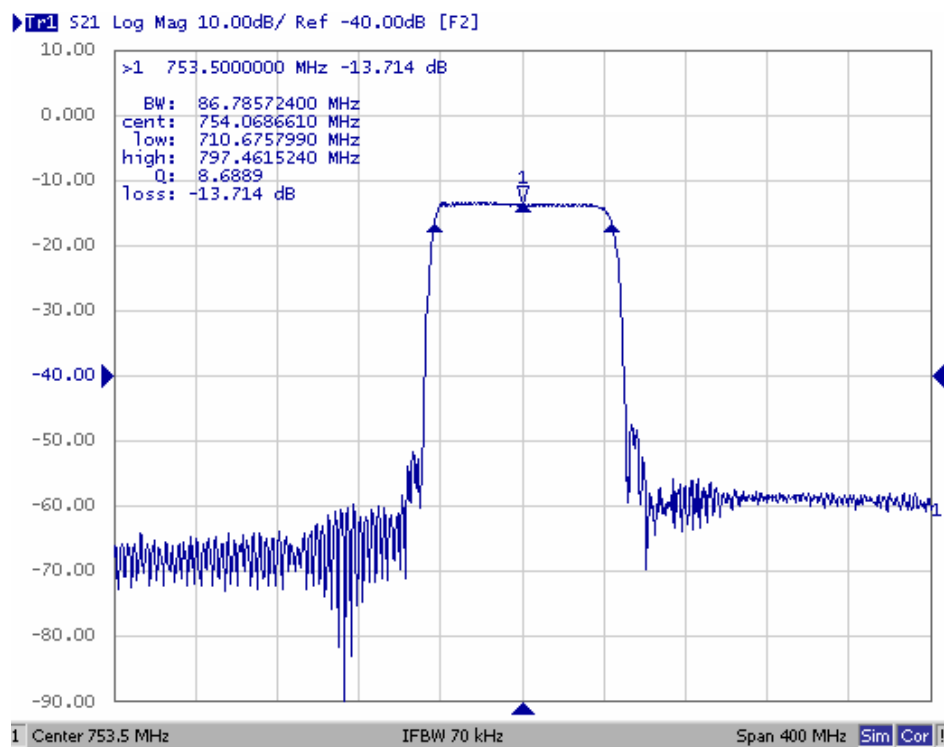


Fig1. Horizontal: 40MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response

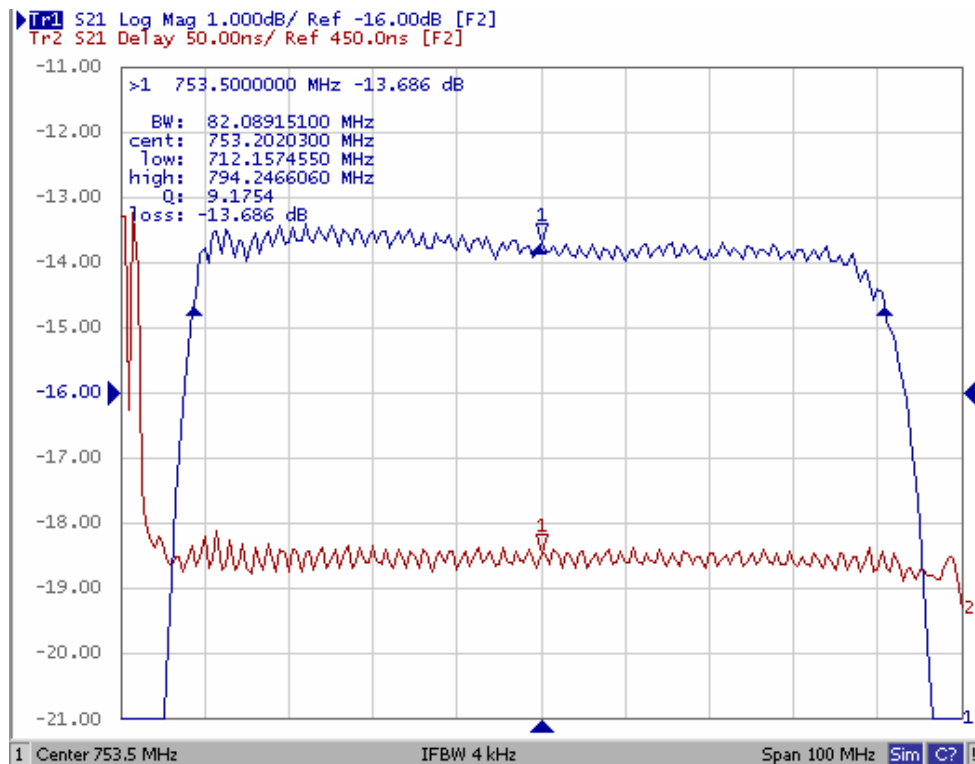
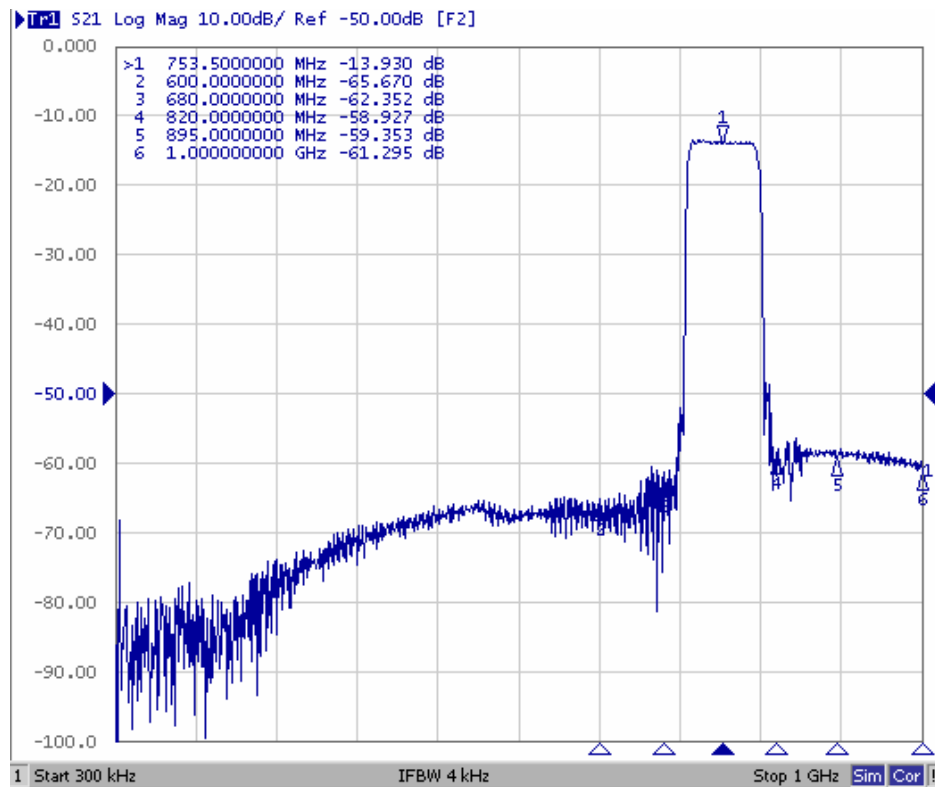
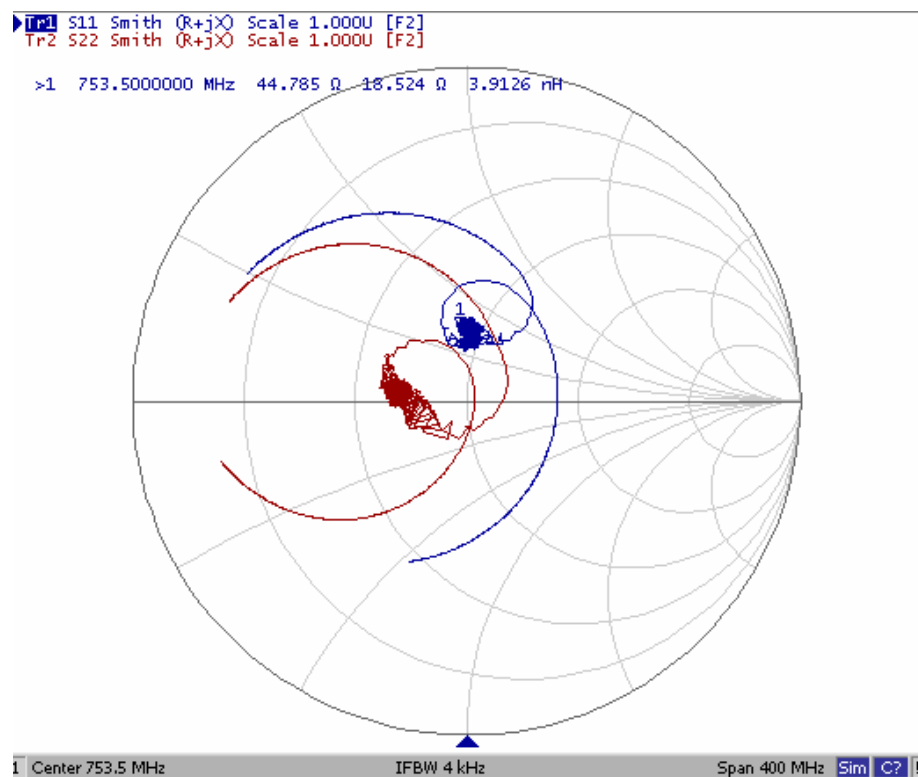


Fig2. Horizontal: 16MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

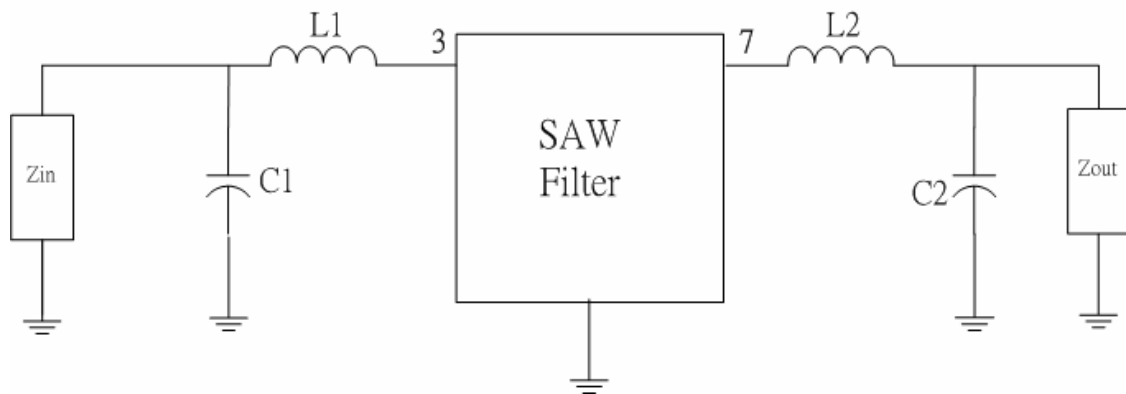
(3) Wide band Response:(span 1000MHz)



(4) Smith Chart

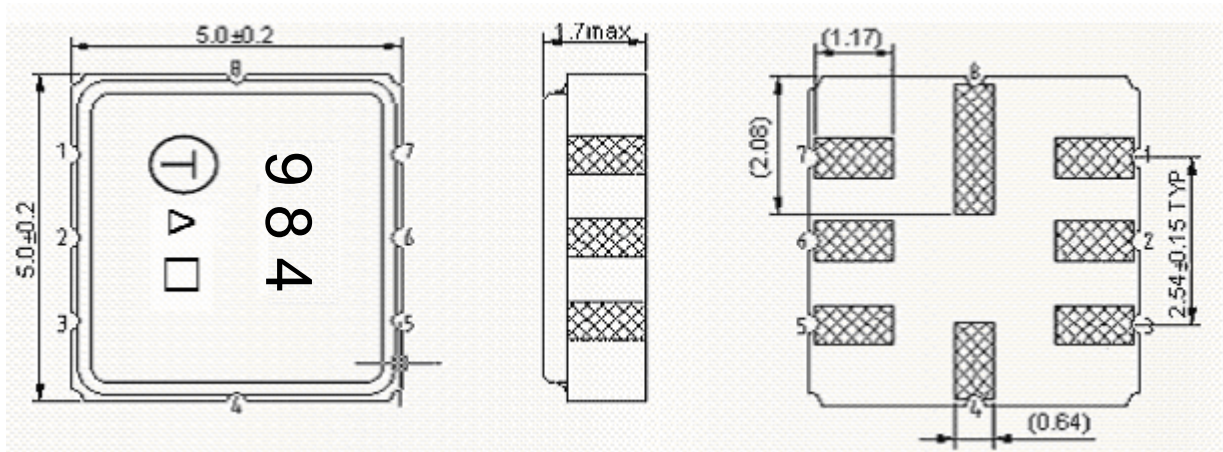


D. Matching Circuit:



$$L1=3\text{nH} \quad L2=3\text{nH} \quad C1=5.6\text{pF} \quad C2=6.8\text{pF}$$

E. Outline Drawing:



#3 –Input

#2 –Input ground

#7 – Output

#6 – Output ground

#1,4,5,8 – Ground

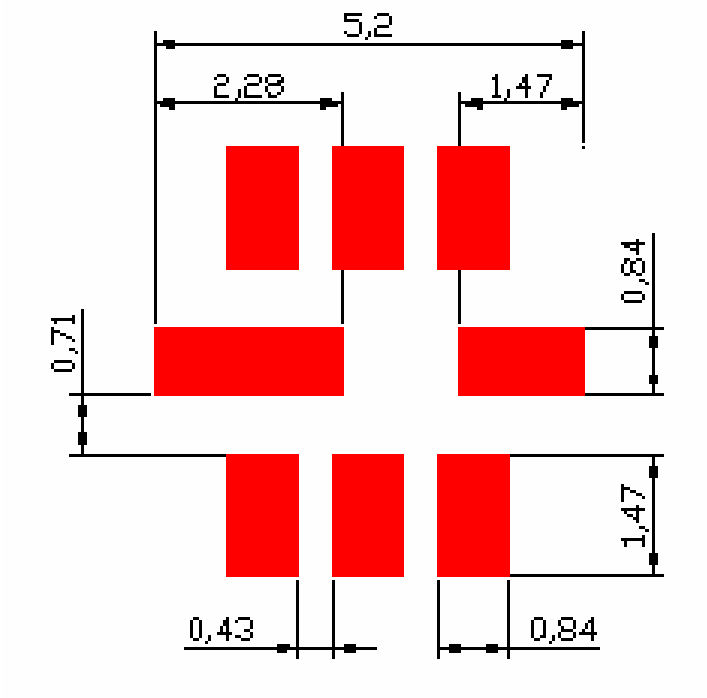
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

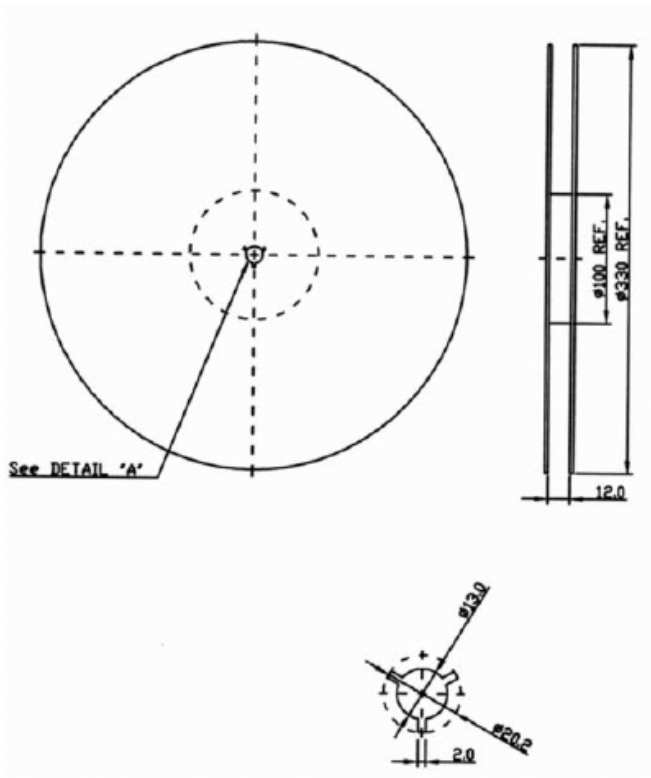
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

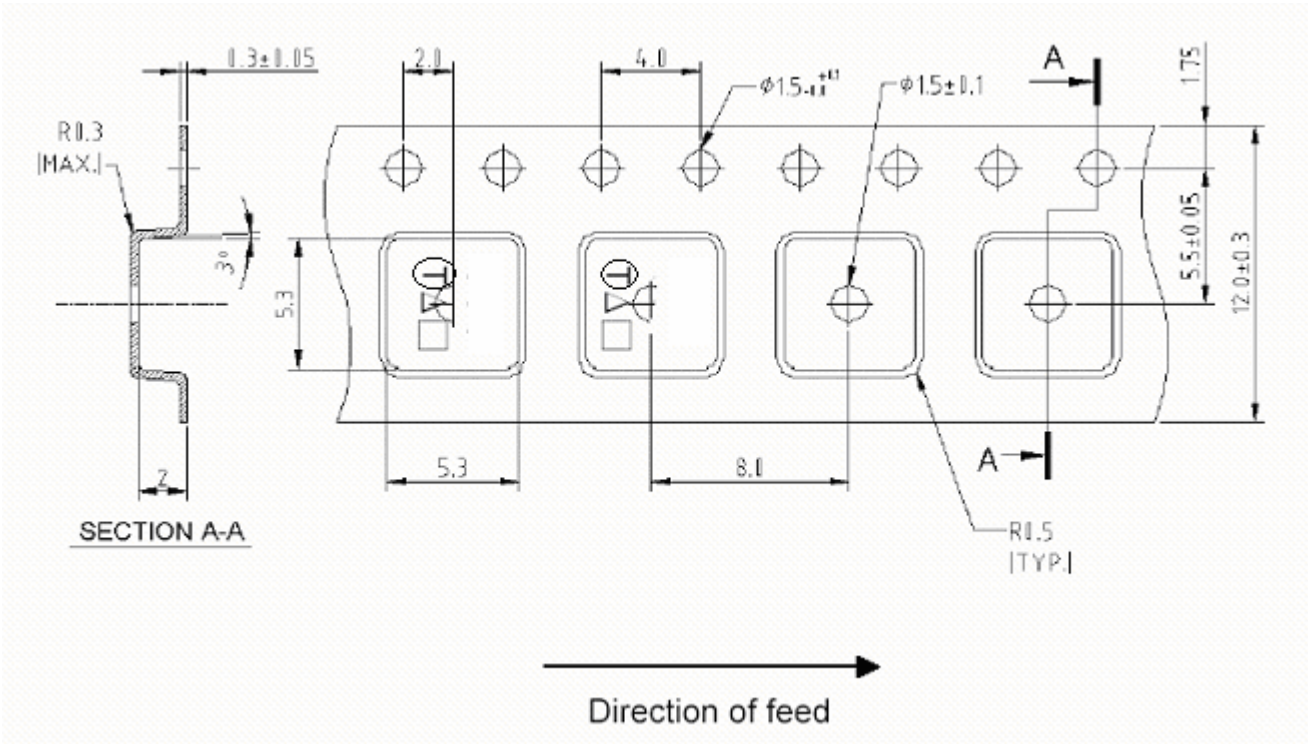


G. PACKING:

1. REEL DIMENSION:



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

