



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 169.04 MHz

TST Parts No.: TB0849A (package 13.3mm x 6.5 mm)

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 03 / 16 / 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 169.04MHz 9MHz BW (SMD 13.3×6.5 mm)

MODEL NO.: TB0849A

REV. NO.2

A. MAXIMUM RATING:

1. Operating temperature range: -40°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, Fc	MHz	-	169.04	-
Insertion Loss, IL	dB	-	8.3	10.0
-1dB bandwidth	MHz	9.0	10.4	-
-3dB bandwidth	MHz	-	11.4	-
-15dB bandwidth	MHz	-	13.5	15.5
-40dB bandwidth	MHz	-	15.7	17.0
Passband Ripple Fc+/- 3.22MHz	dB	-	0.4	1.0
Group Delay variation Fc+/- 3.22MHz	nsec	-	60	100
Absolute Delay	unec	-	0.8	-
Attenuation (Reference level from minimum Insertion loss)				
DC ~ 148.9 MHz	dB	50	60	-
188.9 MHz ~ 450 MHz	dB	50	60	-
450 MHz ~ 800 MHz	dB	50	60	-
Temperature Coefficient	ppm/°C	-	-23	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

C. Frequency Characteristics :

(1) Wide band Response:(span 100MHz)

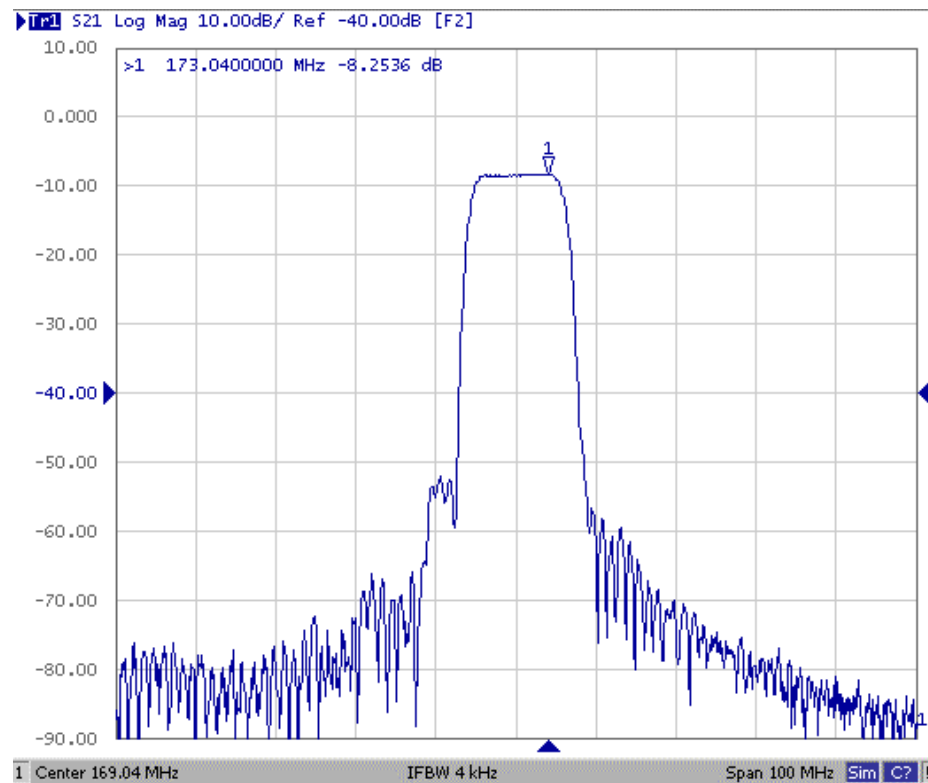


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

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

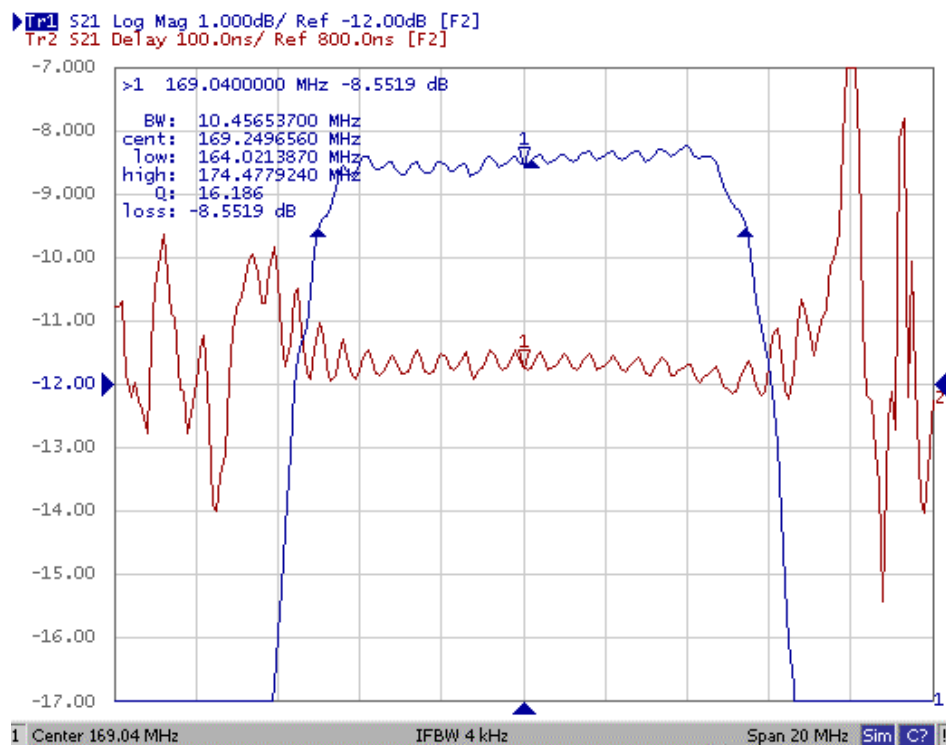


Fig2. Horizontal: 2MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

(3) Wide band Response:

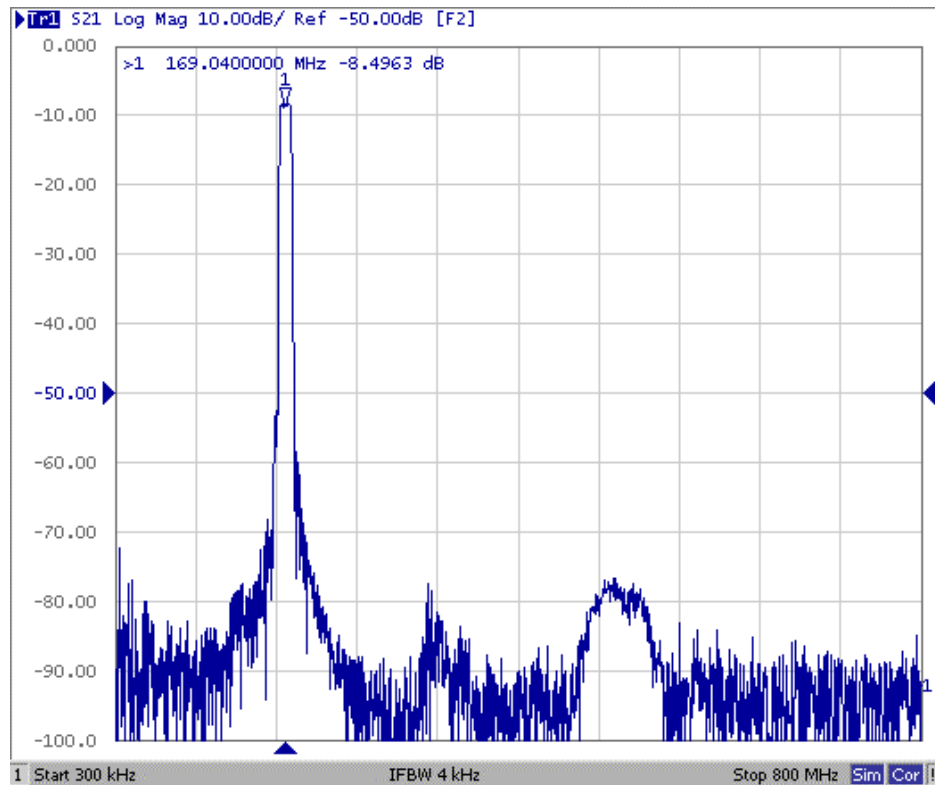
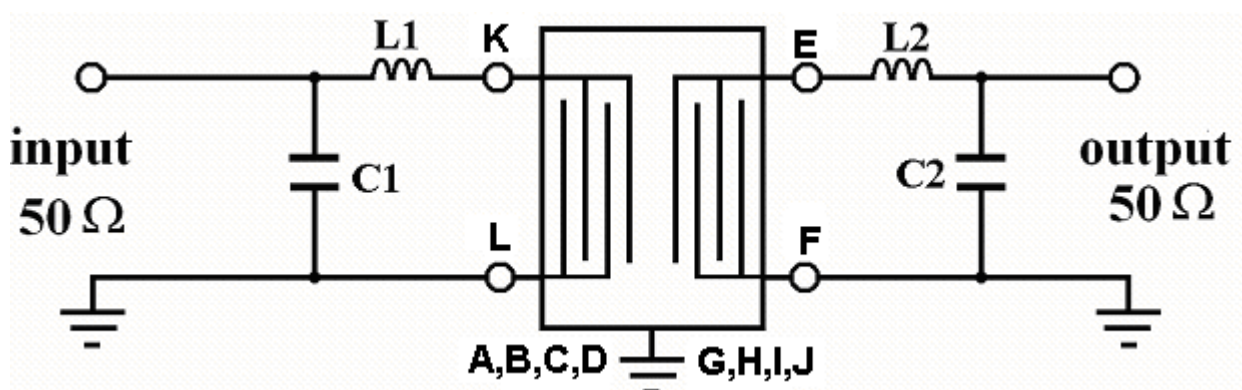


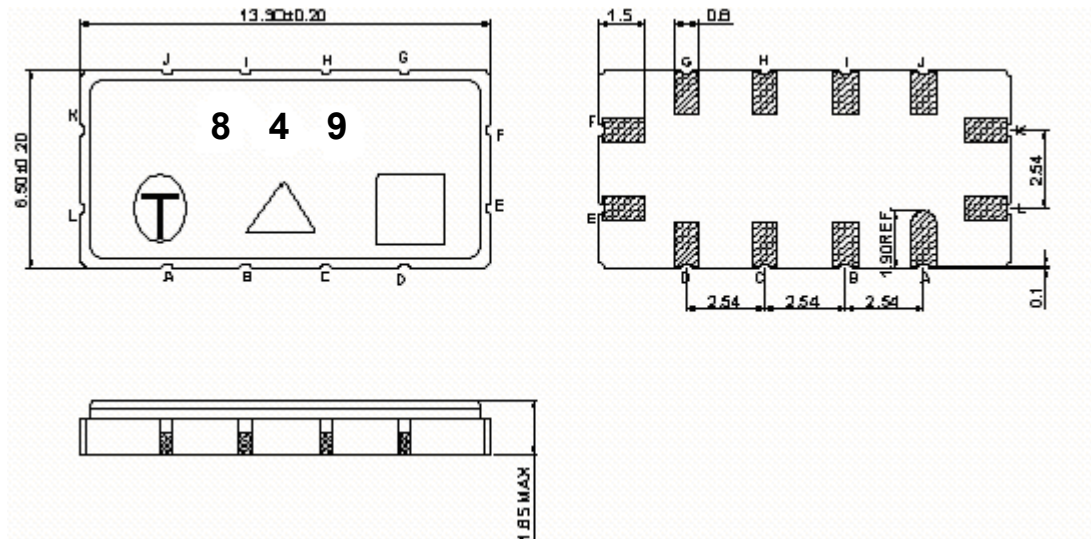
Fig3. Horizontal: 80MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



$$L1=56\text{nH} \quad C1=47\text{pF} \quad L2=68\text{nH} \quad C2=39\text{pF}$$

E. Outline Drawing:



#K : Input

#L : Input Ground

#E : Output

#F : Output Ground

#A,B,C,D,G,H,I,J : Ground

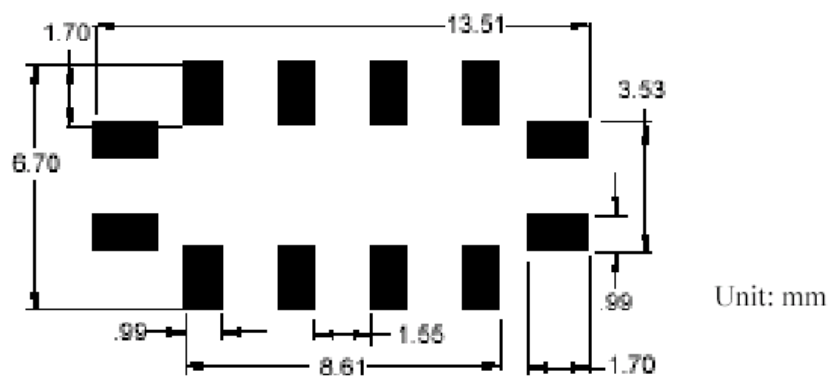
□: Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

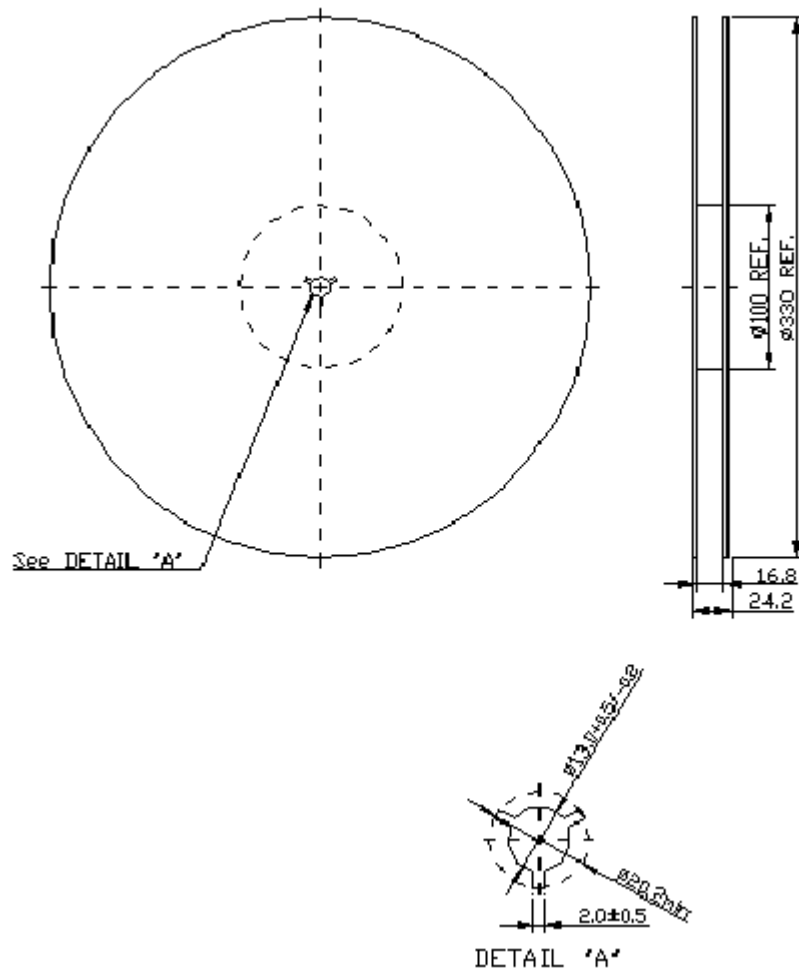
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

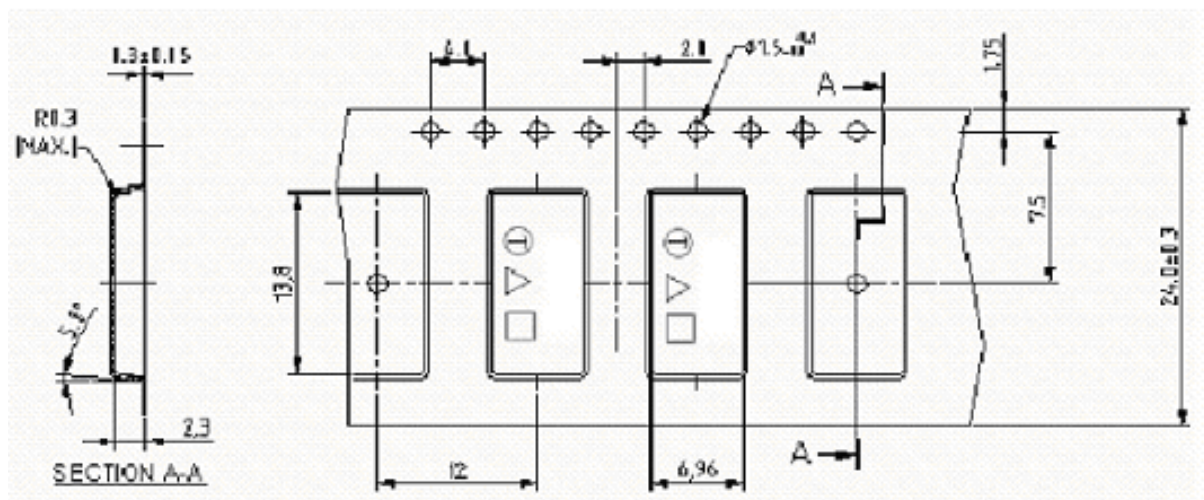


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

