



# TAI-SAW TECHNOLOGY CO., LTD.

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Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 60MHz SMD 13.3x6.5mm

TST Parts No.:TB0634A

Customer Parts No.: \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Andy Yu *Andy Yu*

Approval by: Francis Chen *Francis Chen*

Date: 2008/7/15



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SAW Filter 60 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0634A

REV.1.0

## A. MAXIMUM RATING:

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

RoHS Compliant  
Lead free  
Lead-free soldering

## B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	60.0	-
Insertion Loss, IL	dB	-	10.0	14.0
1 dB Bandwidth	MHz	4.8	5.3	-
3 dB Bandwidth	MHz	-	6.0	-
25 dB Bandwidth	MHz		7.9	8.0
40 dB Bandwidth	MHz		8.7	10.0
Pass band Ripple Fc±2.4MHz	P-P dB	-	0.6	1.2
VSWR Fc±2.4MHz	P-P dB		1.9	3.5
Group delay Variation Fc±2.4MHz	P-P nsec		120	200
Triple Transit Suppression	dB	40	43	
Power Handling	dBm	10		
Temp Coefficient	ppm/K	-	-23	-

## D. FREQUENCY CHARACTERISTICS :

### 1.S21 Response:

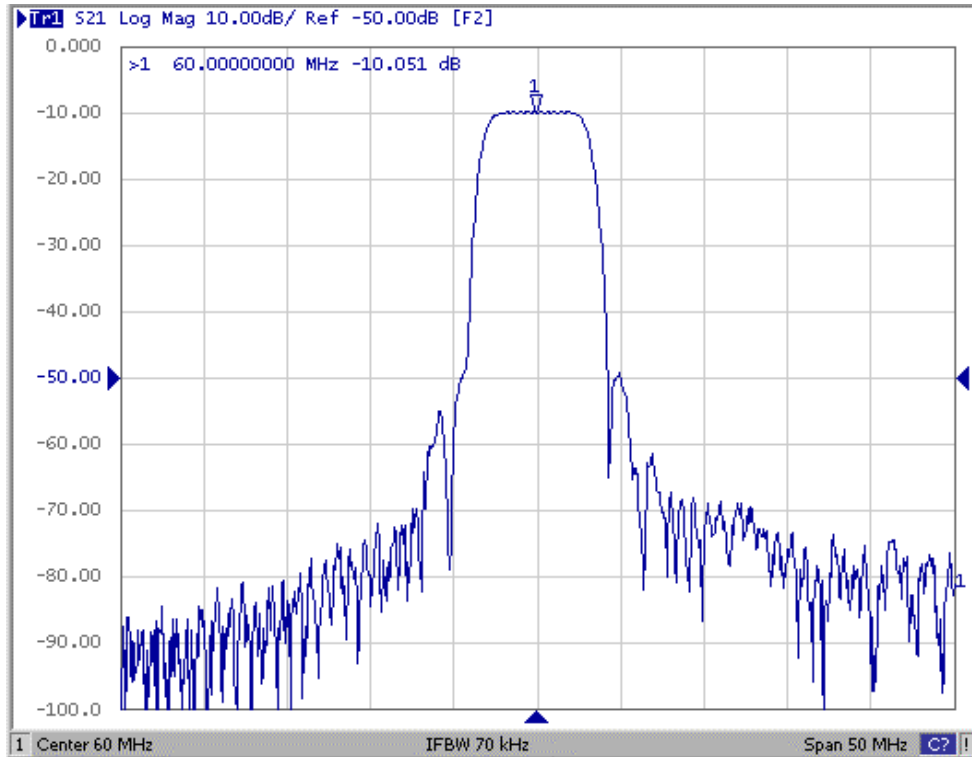


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

### 2. Group-Delay Ripple:

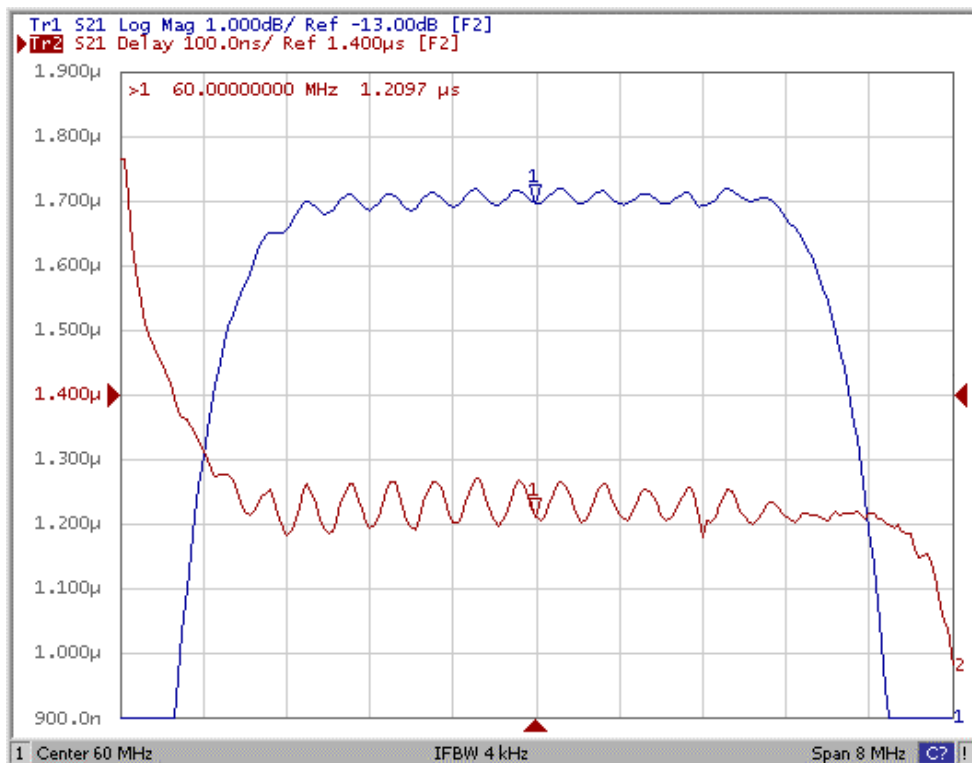
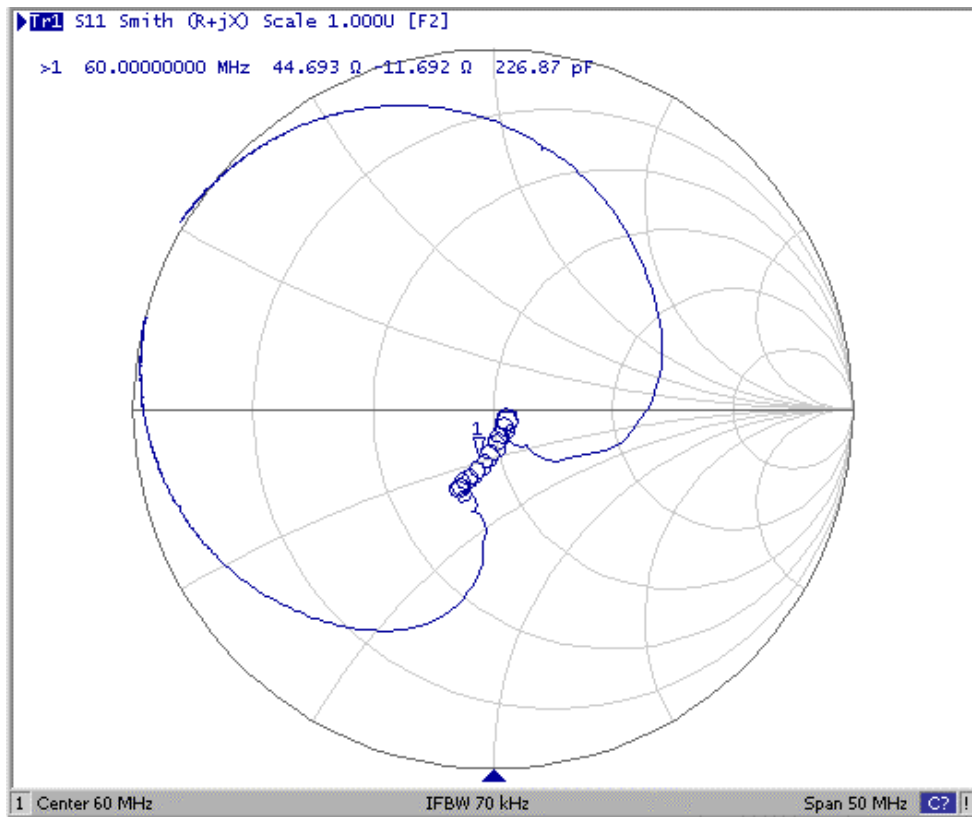
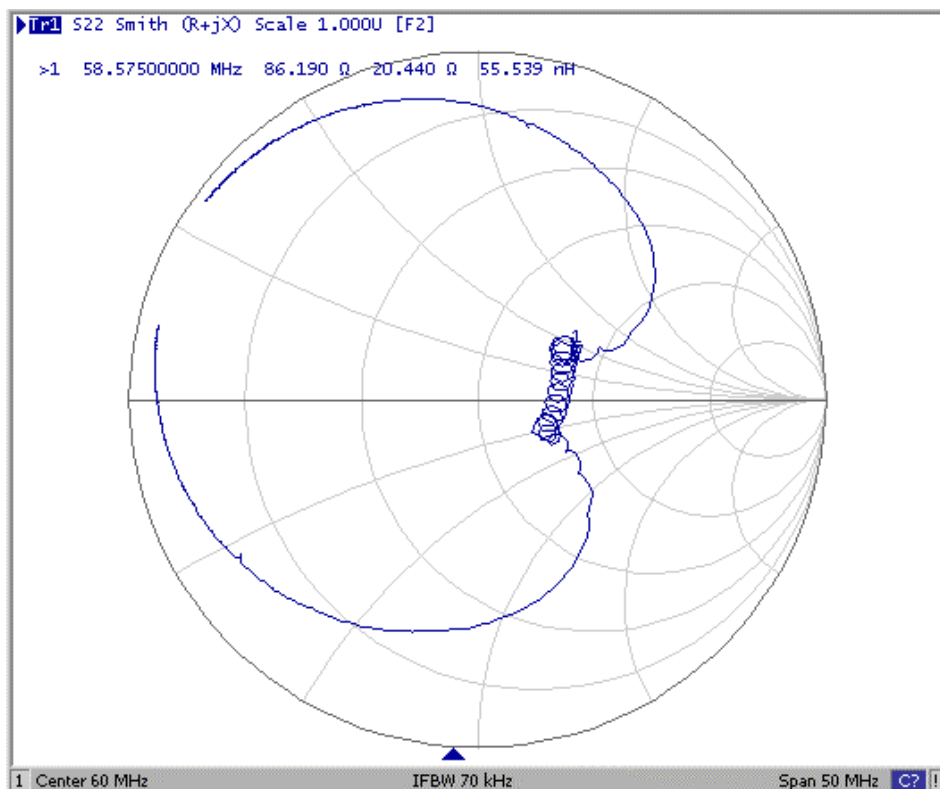


Fig2. Horizontal: 0.8MHz/Div Vertical: 100nec/Div

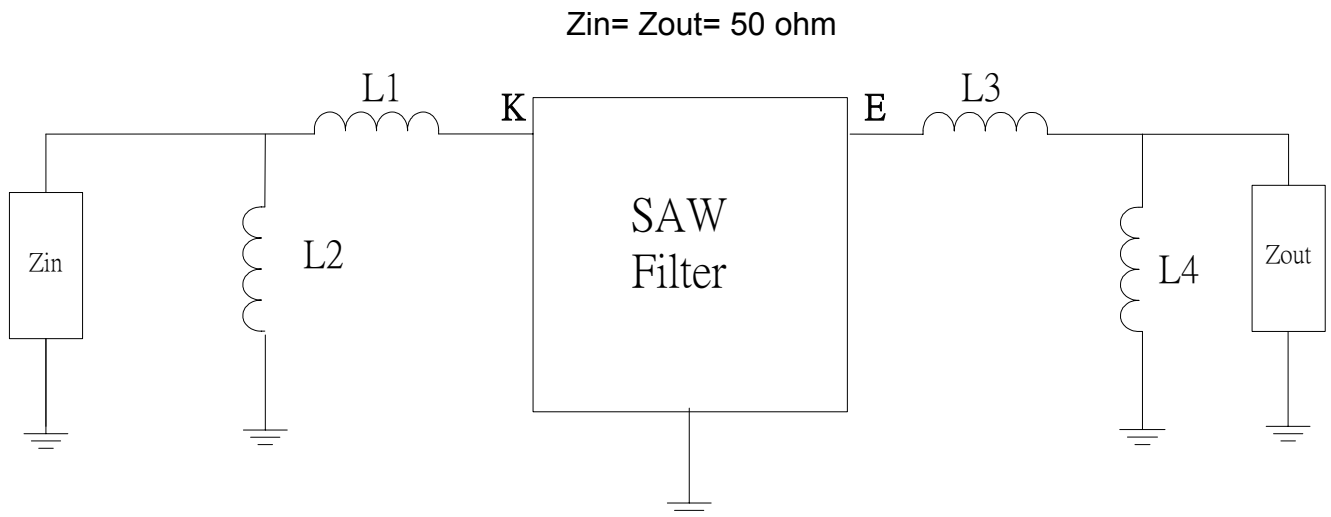
### 3. S11 Smith Chart (span : 50MHz)



### 3. S22 Smith Chart (span : 50MHz)



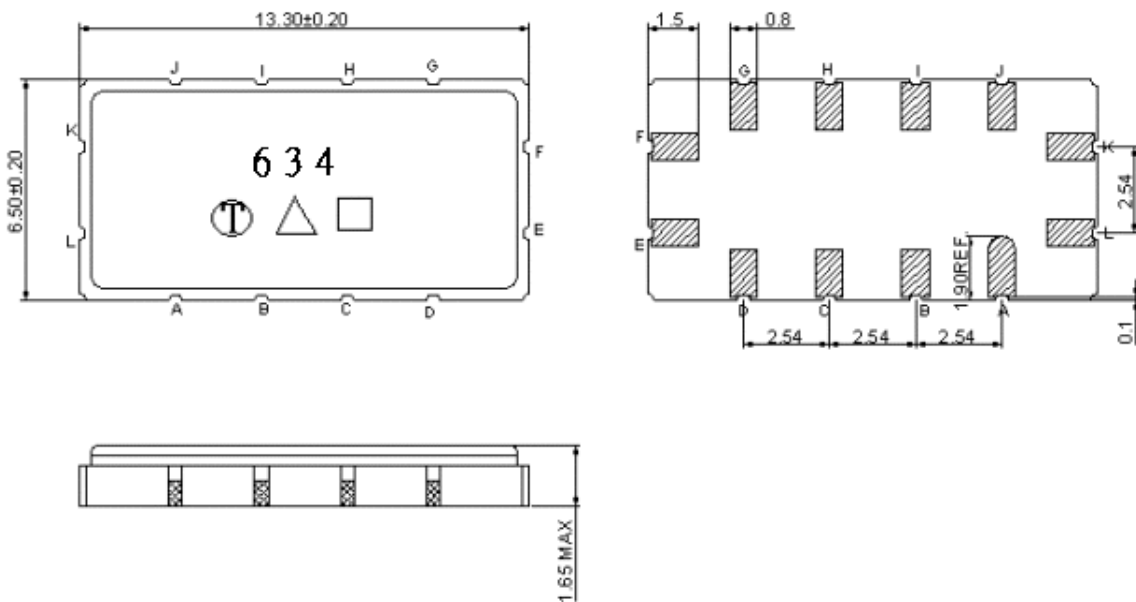
E. MEASUREMENT CIRCUIT



$Z_{in} = Z_{out} = 50 \text{ ohm}$

$L1=L2=47\text{nH}, L3=L4=56\text{nH}$

F. OUTLINE DRAWING:



Pin K: RF input

Pin E: RF output

Pin A, B, C, D, G, H, I, L, F J: To be Ground

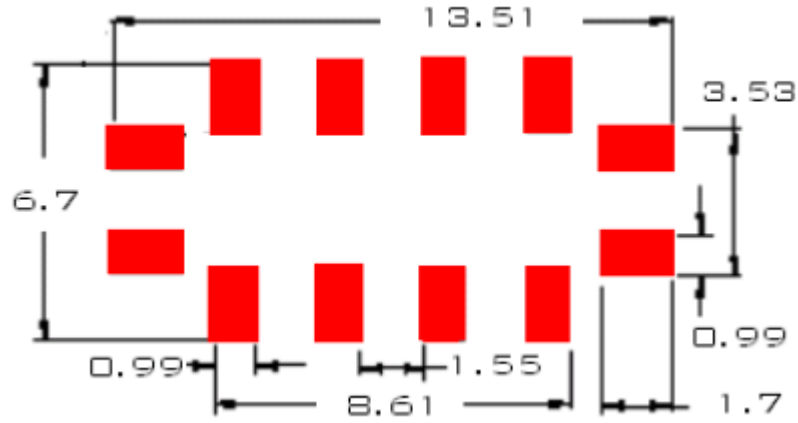
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

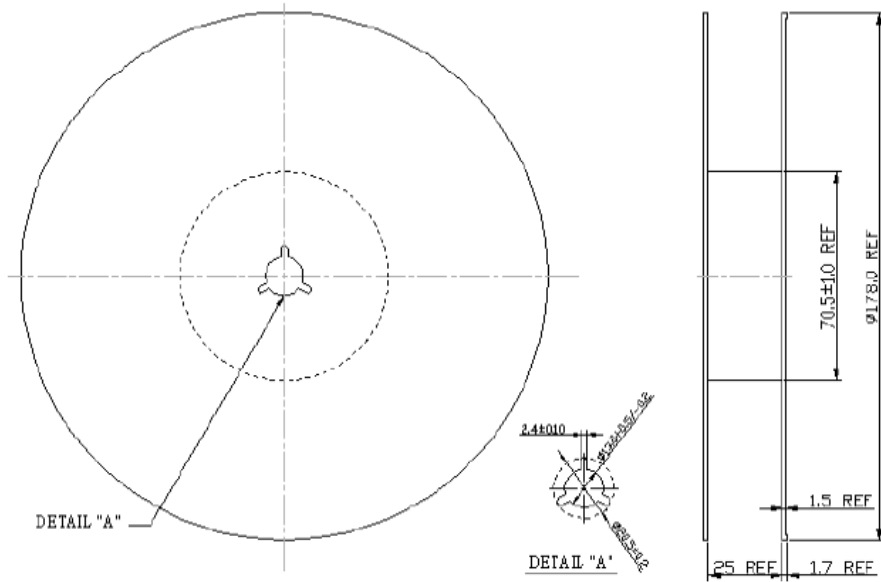
G. PCB Footprint



Unit: mm

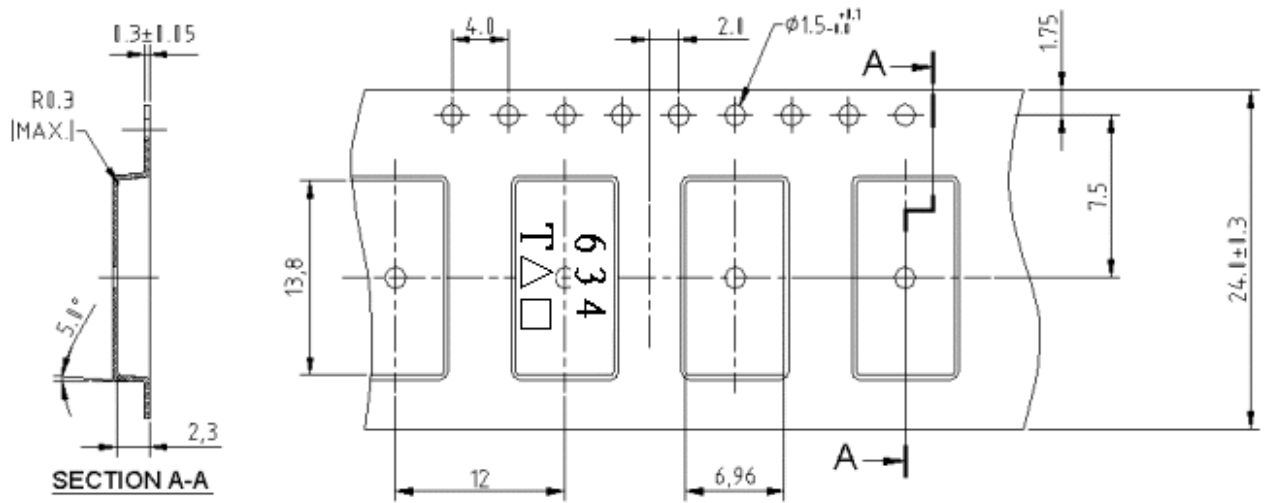
H. PACKING:

1. REEL DIMENSION



Unit: mm

## 2. TAPE DIMENSION



### I. RECOMMENDED REFLOW PROFILE\_:

