



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 512.2MHz SMD 7.0x5.0mm

TST Parts No.:TB0577A

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

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

Checked by: \_\_\_\_\_ Andy Lee

Approval by: \_\_\_\_\_ Francis Chen

Date: \_\_\_\_\_ 2007/12/28



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SAW Filter 512.2 MHz SMD 7.0mmX5.0mm

MODEL NO.: TB0577A

REV. NO. 1

## A. MAXIMUM RATING:

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

RoHS Compliant  
Lead free  
Lead-free soldering

## B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

Item		Min.	Typical	Max.	
Center frequency	Fc	MHz	-	512.2	-
Insertion loss at Fc		dB	-	11.8	13.5
Bandwidth at -1.0dB		MHz	27.0	30.0	-
Amplitude Ripple (Fc ± 11.5 MHz)		dB	-	0.6	1.0
Group Delay Ripple (Fc ± 11.5 MHz)		nS	-	30	-
Attenuation (Reference level from minimum Insertion loss )					
	300 MHz ~ 487.5MHz	dB	40	48	-
	540 MHz ~ 650 MHz	dB	36	42	-
Temp Coefficient		ppm/ C	-	-93	-

## D. FREQUENCY CHARACTERISTICS :

### 1.S21 Response

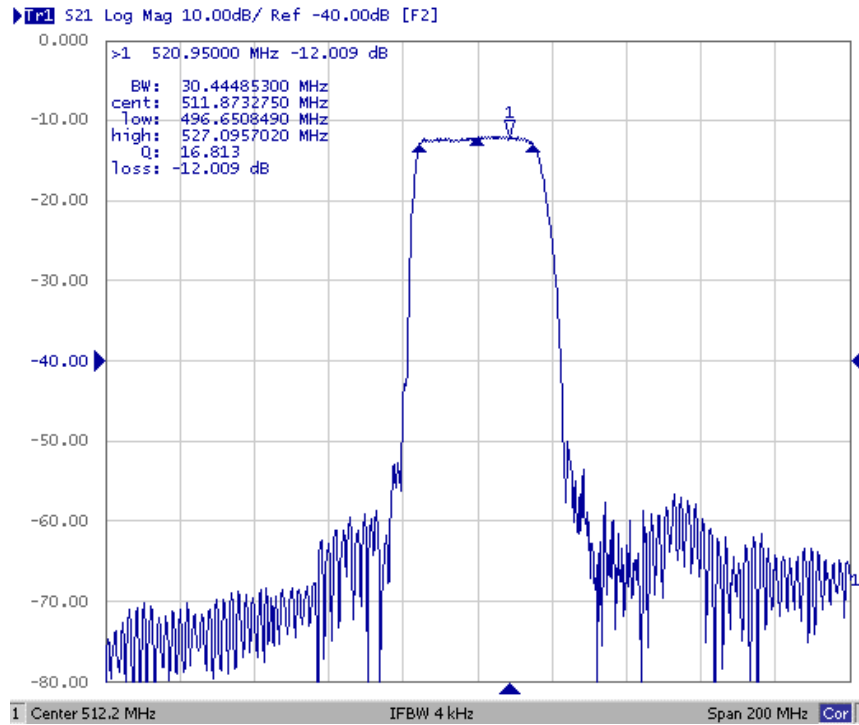


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

### 2. Passband Ripple

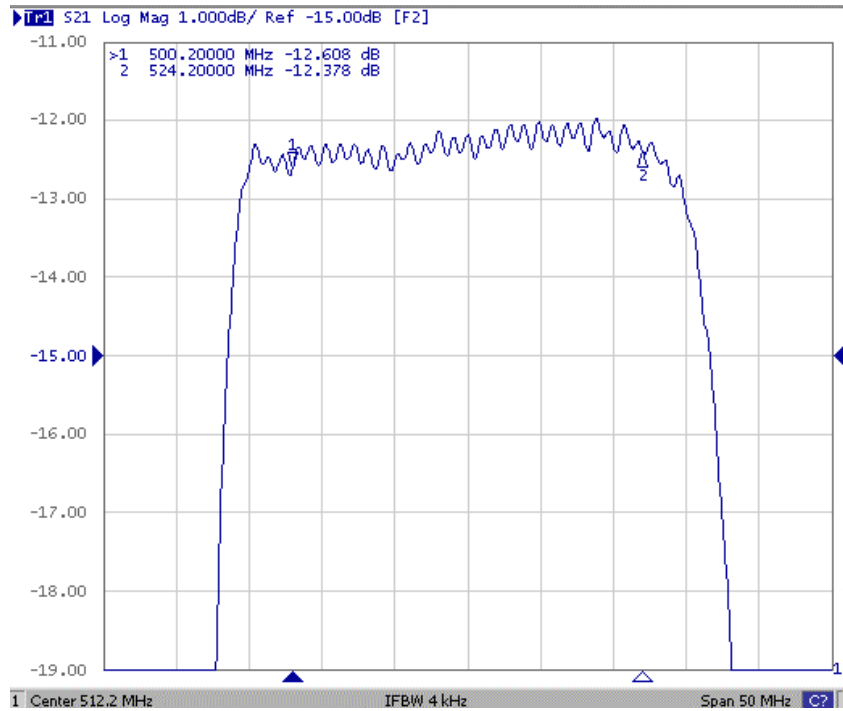


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div

### 3. Group Delay Ripple

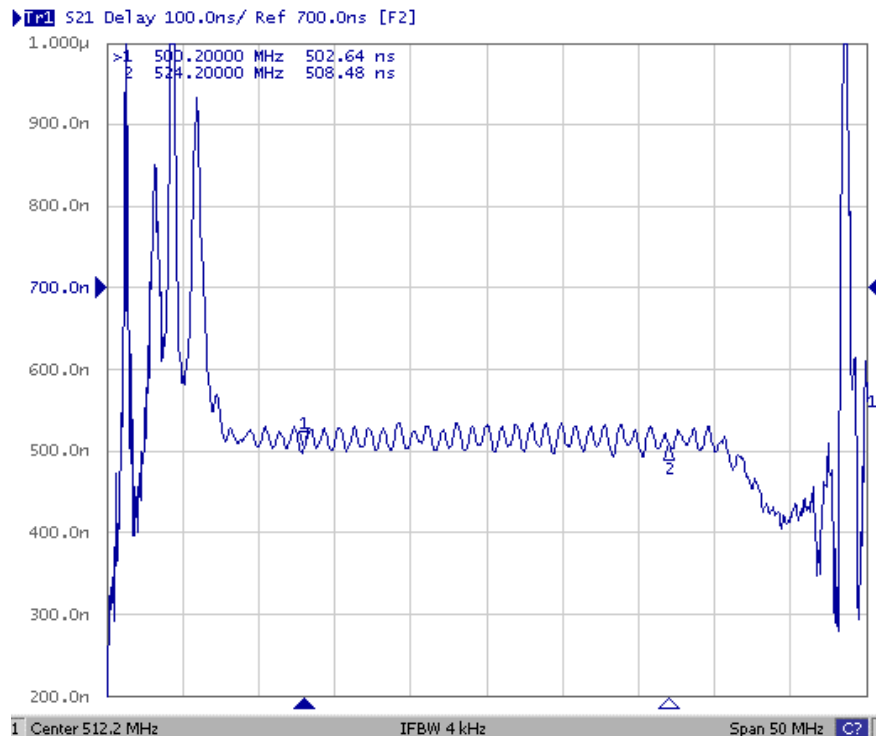
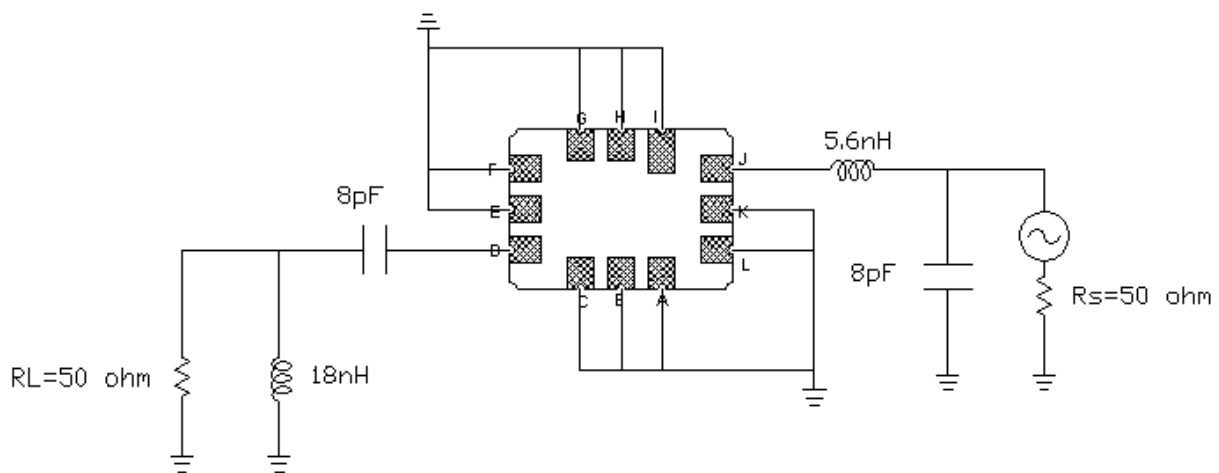


Fig3. Horizontal: 5MHz/Div Vertical: 100nS/Div

### E. MEASUREMENT CIRCUIT

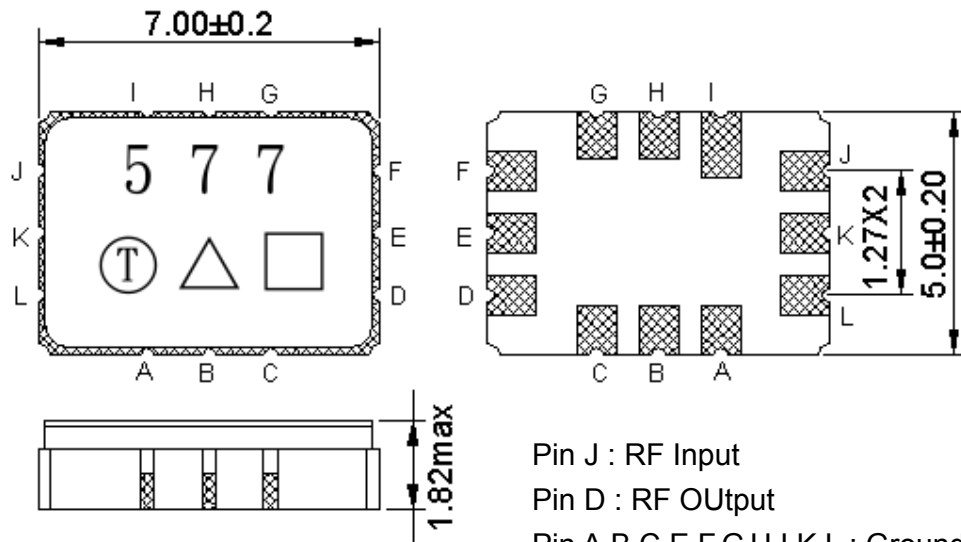
#### 1. Single ended input 50 ohm to Single ended Output 50 ohm

:



Note: The matching structure will change according to different test fixture.

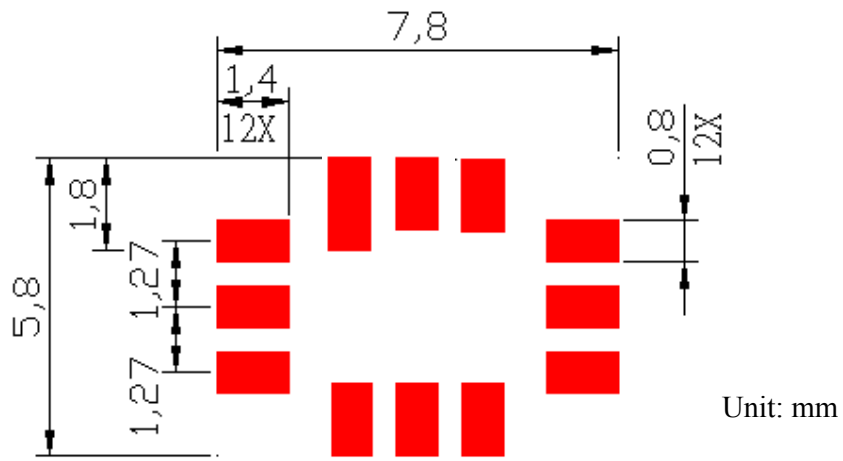
F.OUTLINE DRAWING:



Pin J : RF Input  
 Pin D : RF Output  
 Pin A,B,C,E,F,G,H,I,K,L : Ground  
 Unit: mm  
 □ : Week Code (Follow the table from planner each year)  
 △ : Product / Year Code

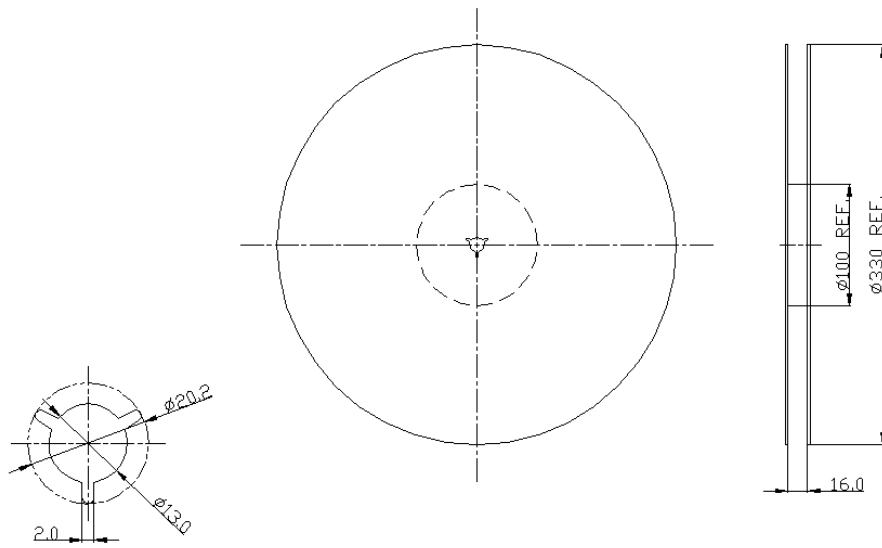
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PCB Footprint



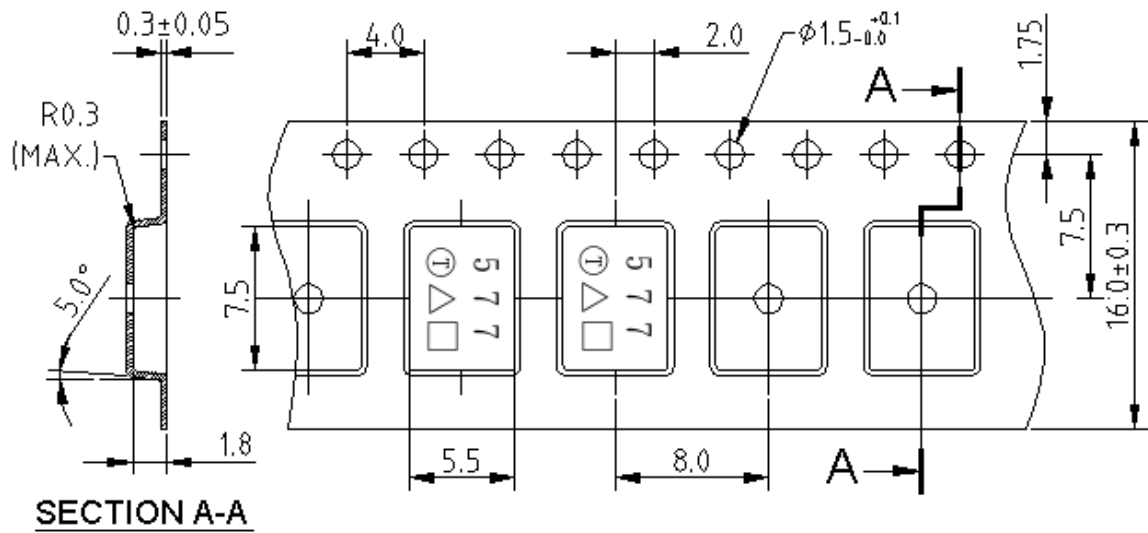
H. PACKING:

1. REEL DIMENSION



Unit: mm

## 2. TAPE DIMENSION



Unit: mm

## I. RECOMMENDED REFLOW PROFILE:

