



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 464MHz SMD 7.0x5.0mm

TST Parts No.:TB0575A

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

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

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

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

Date: \_\_\_\_\_ 2008/1/31



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SAW Filter 464 MHz SMD 7.0mmX5.0mm

MODEL NO.: TB0575A

REV. NO. 2

## 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 °C

Item		Min.	Typical	Max.	
Center frequency	Fc	MHz	-	464.0	-
Insertion loss at Fc		dB	-	12.6	13.5
Bandwidth at -1.0dB		MHz	3.40	3.54	-
Bandwidth at -3.0dB		MHz	-	3.93	4.00
Amplitude Ripple (Fc ± 1.7 MHz)		dB	-	0.6	1.0
Group Delay Ripple (Fc ± 1.4 MHz)		nS	-	100	250
Attenuation (Reference level from minimum Insertion loss )					
DC ~ 264 MHz		dBc	30	62	-
264 ~ 368 MHz		dBc	50	62	-
368 ~ 424 MHz		dBc	45	57	-
424~ 458.6 MHz		dBc	38	41	-
469.4~ 504 MHz		dBc	37	40	-
504~ 664 MHz		dBc	40	50	-
664 ~ 1000 MHz		dBc	30	60	-
Temp Coefficient		ppm/ C <sup>2</sup>	-	-0.036	-

## D. FREQUENCY CHARACTERISTICS :

### 1.S21 Response

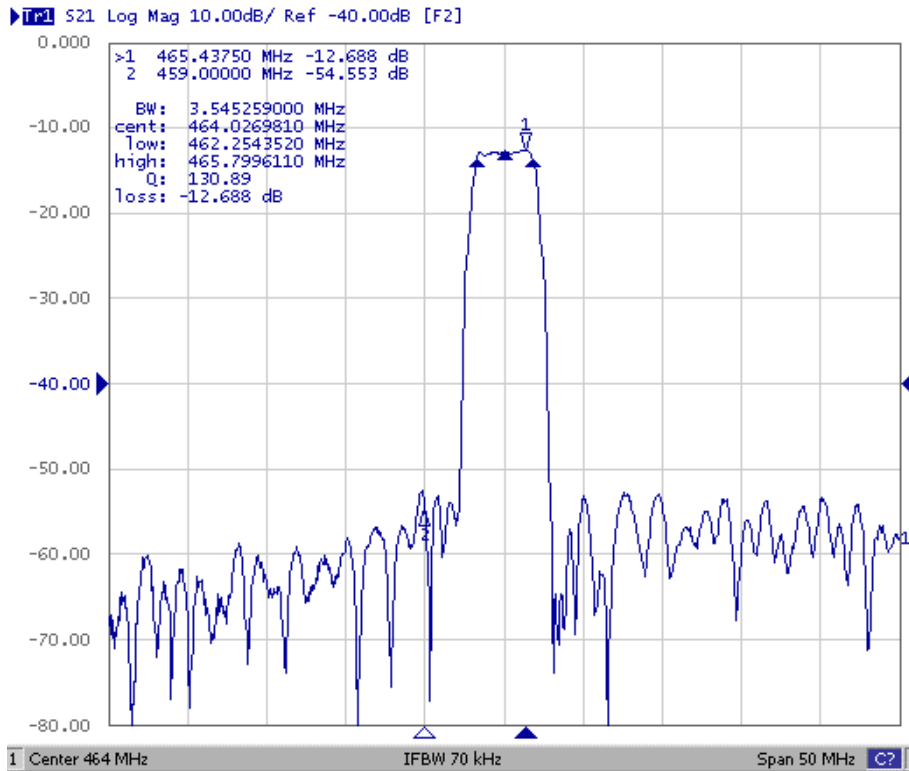


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

### 2. Passband Ripple

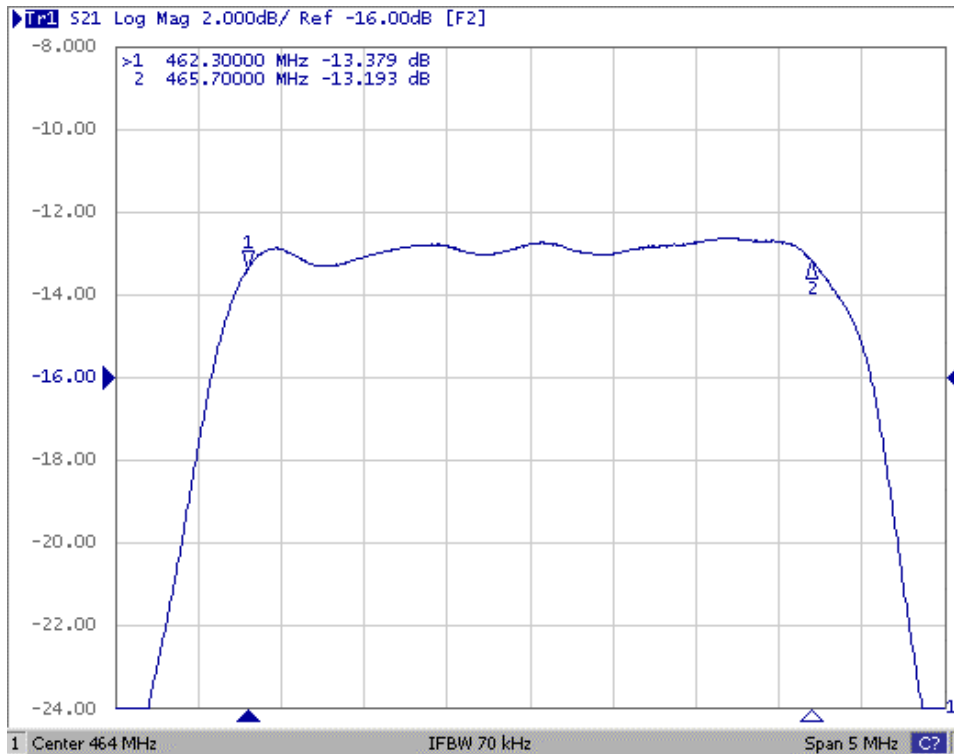


Fig2. Horizontal: 0.5MHz/Div Vertical: 2dB/Div

### 3. Group Delay Ripple

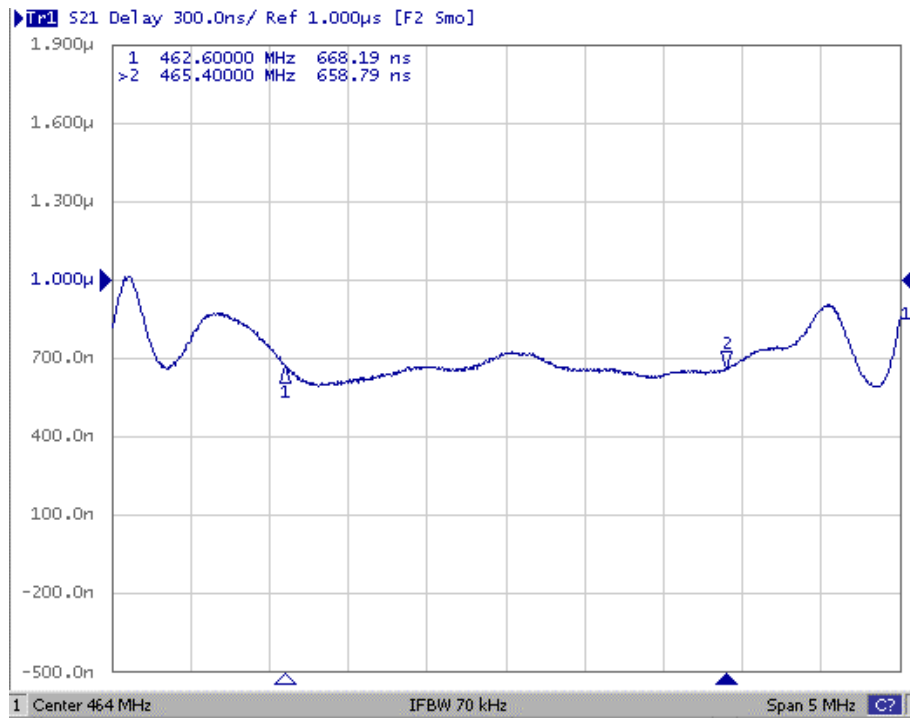


Fig3. Horizontal: 0.5MHz/Div Vertical: 300nS/Div

### 4. Wide band Response

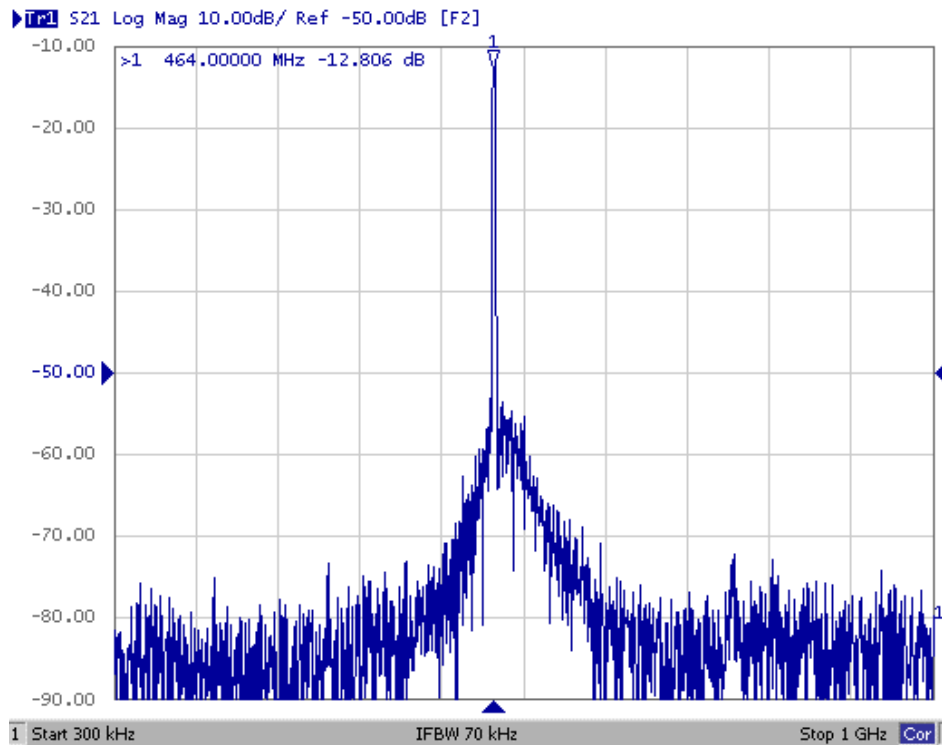
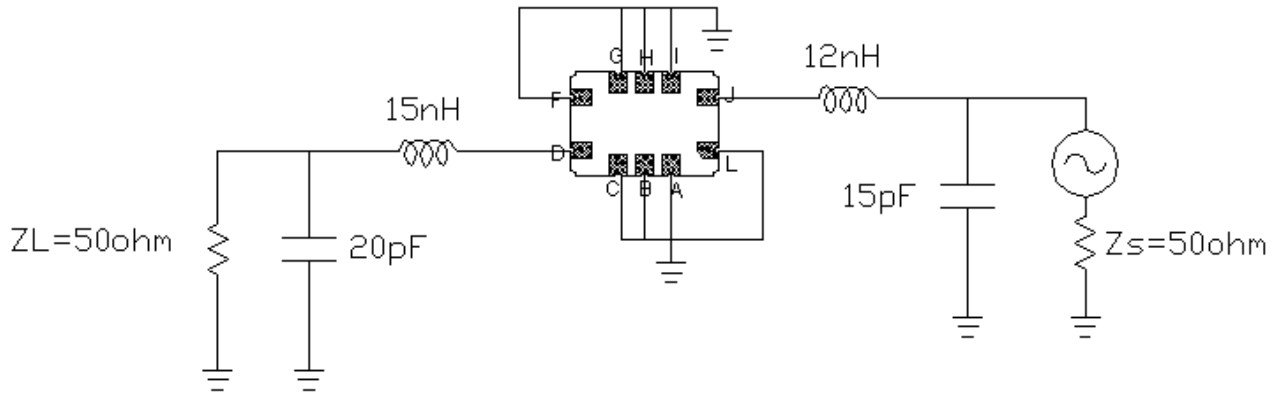


Fig4. Horizontal: 100MHz/Div Vertical: 10dB/Div

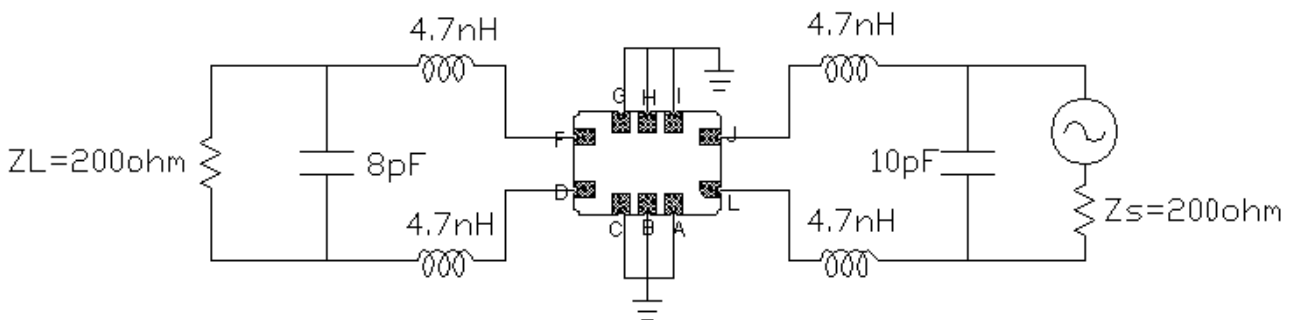
## E. MEASUREMENT CIRCUIT

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

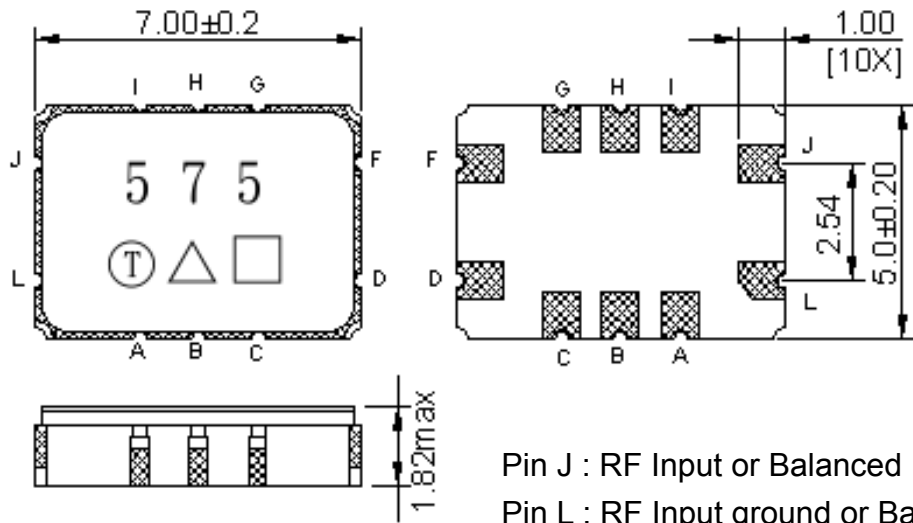
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### 2. Balanced input 200 ohm to Balanced Output 200 ohm



F.OUTLINE DRAWING:



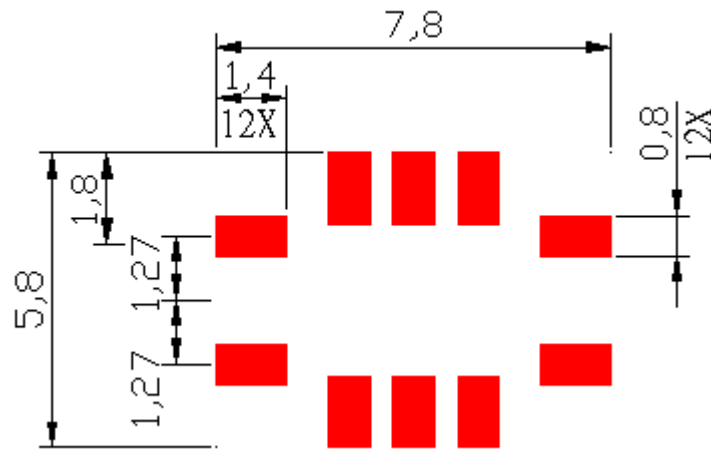
- Pin J : RF Input or Balanced Input +
- Pin L : RF Input ground or Balanced input -
- Pin D : RF Output or Balanced Output+
- Pin F : RF Output ground or Balanced Output -
- Pin A,B,C,G,H,I : Ground

Unit: mm

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

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

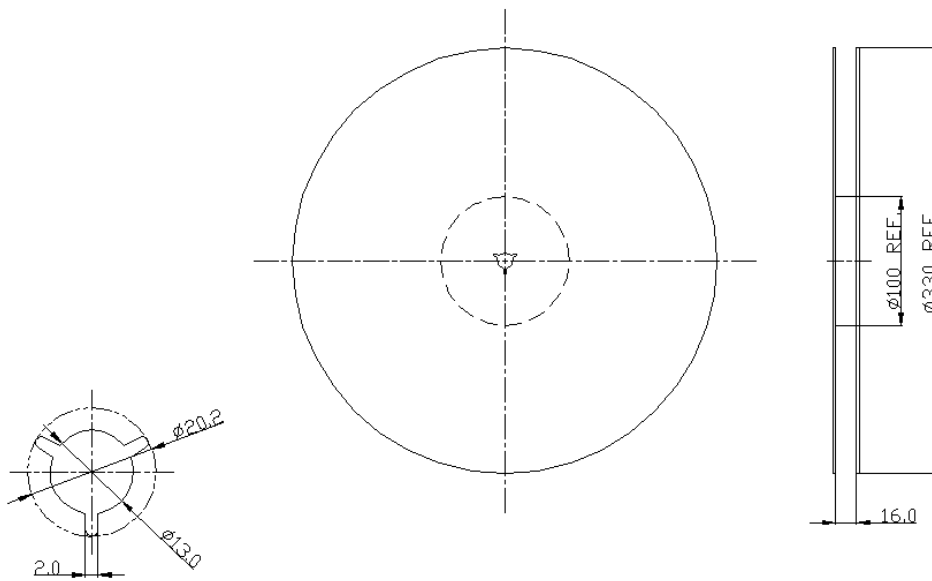
G. PCB Footprint



Unit: mm

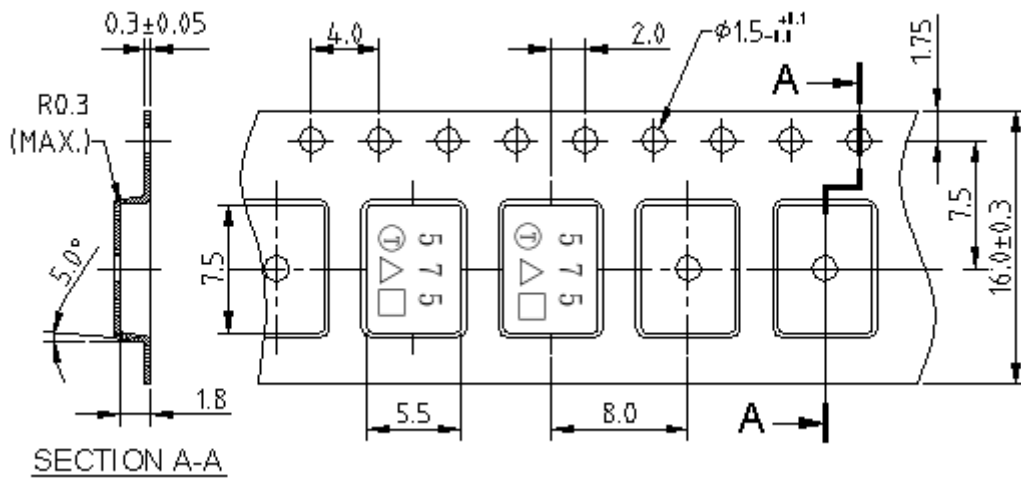
H. PACKING:

1. REEL DIMENSION



Unit: mm

## 2. TAPE DIMENSION



Unit: mm

## I. RECOMMENDED REFLOW PROFILE\_:

