



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 374 MHz (SMD 5.0mmX5.0mm)

TST Parts No.:TB0501A

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

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

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

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

Date: \_\_\_\_\_ 2007/7/11



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## IF SAW Filter 374MHz SMD 5.0X5.0mm

MODEL NO.: TB0501A

Rev. No.1

### A. MAXIMUM RATING:

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

RoHS Compliant  
Lead free  
Lead-free soldering

### B. Characteristics :

1. Ambient Temperature: 25 °C

Characteristics			Value			Note.
			Min.		Max.	
Center frequency	$F_C$	MHz	-	374	-	-
Maximum Insertion loss	I.L.	dB	-	10.0	11.5	-
1dB Bandwidth		MHz	10.5	11.7	-	
3dB Bandwidth		MHz	-	13.8	-	
35dB Bandwidth		MHz	-	19.9	-	
Passband Ripple in $F_C \pm 5.25$ MHz		dB	-	0.5	1	-
Group Delay Ripple in $F_C \pm 5.25$ MHz		nS	-	35	100	-
Temp Coefficient		ppm/°C		-25		
Attenuation:( Reference level from minimum insertion loss)						
1)	279 ~ 346 MHz	dB	40	51	-	-
2)	346 ~ 357 MHz	dB	40	50	-	-
3)	357 ~ 361 MHz	dB	35	46	-	-
4)	387 ~ 391 MHz	dB	25	42	-	-
5)	391 ~ 425 MHz	dB	30	47	-	-
6)	425 ~ 469 MHz	dB	40	52	-	-

## C. Frequency Characteristics :

### 1. S21 Response

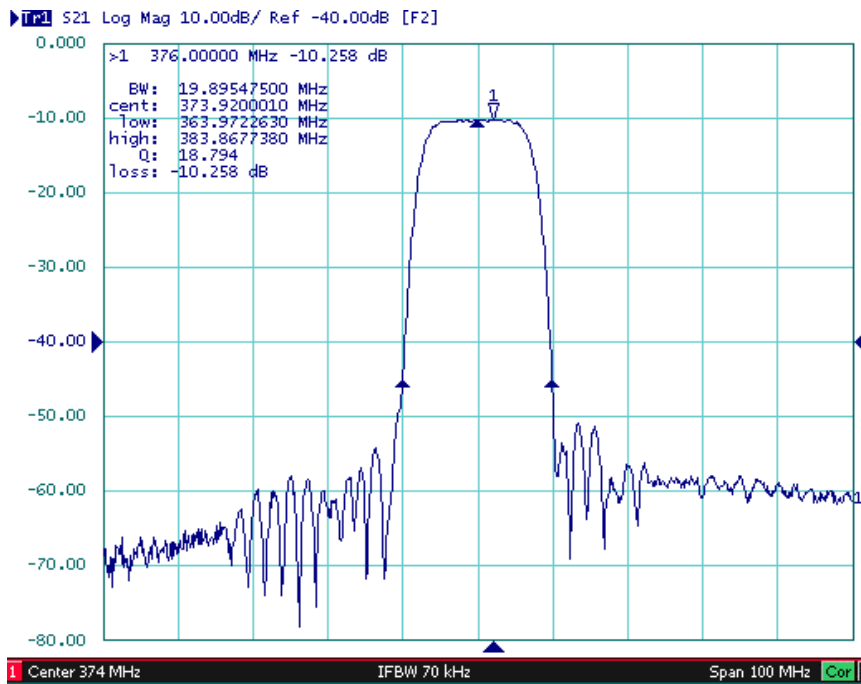


Fig. 1 Horizontal: 10MHz; Vertical: 10dB/Div

### 2. Passband Response

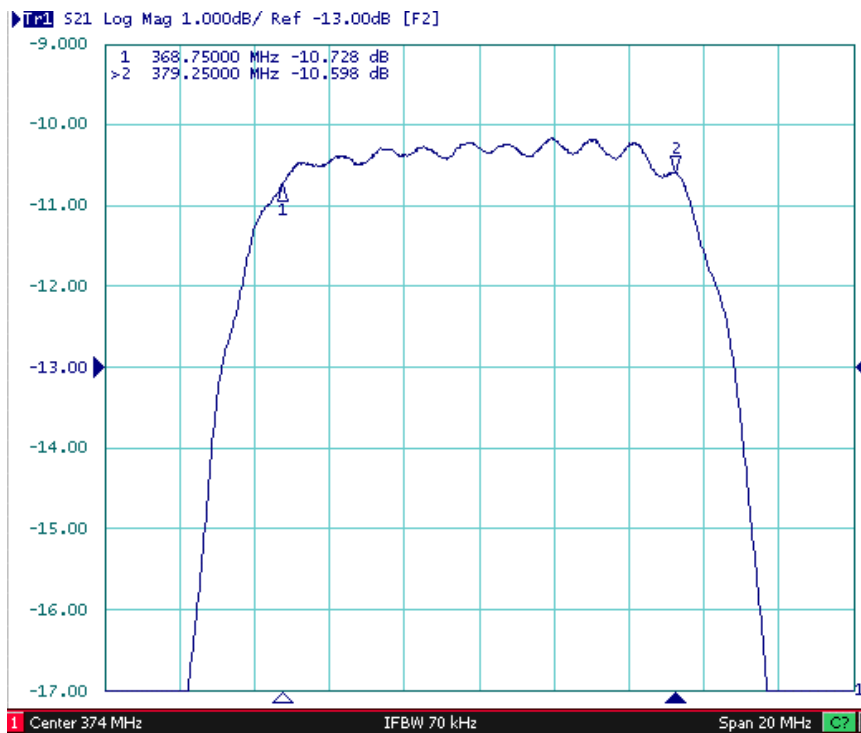


Fig. 2 Passband Horizontal: 2MHz; Vertical: 1dB/Div

### 3. Group Delay

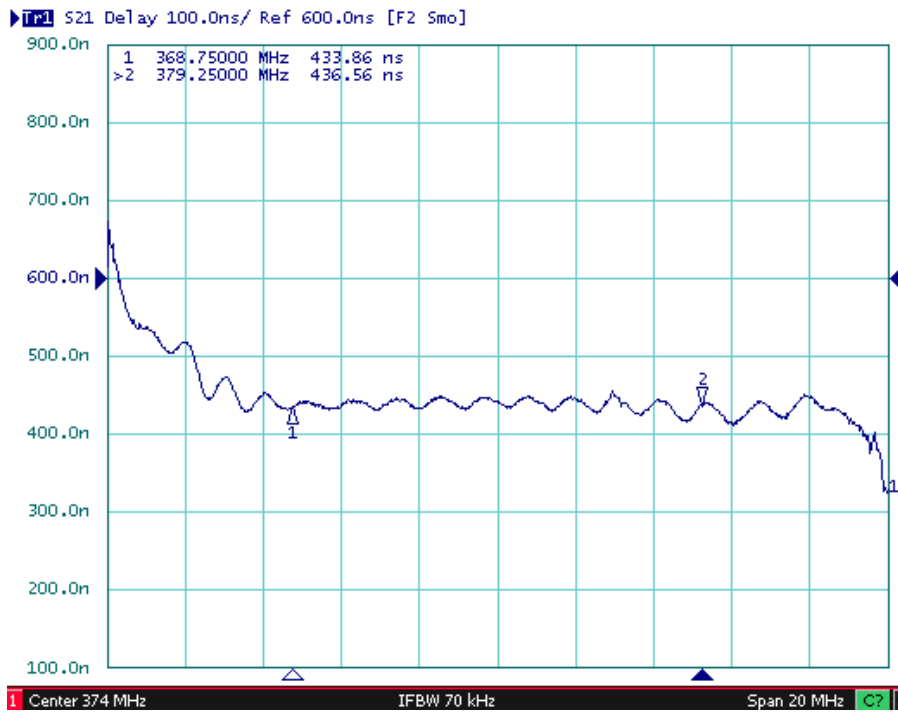


Fig. 3 Passband Horizontal: 2MHz; Vertical: 1dB/Div

### 4. Wide band

5.

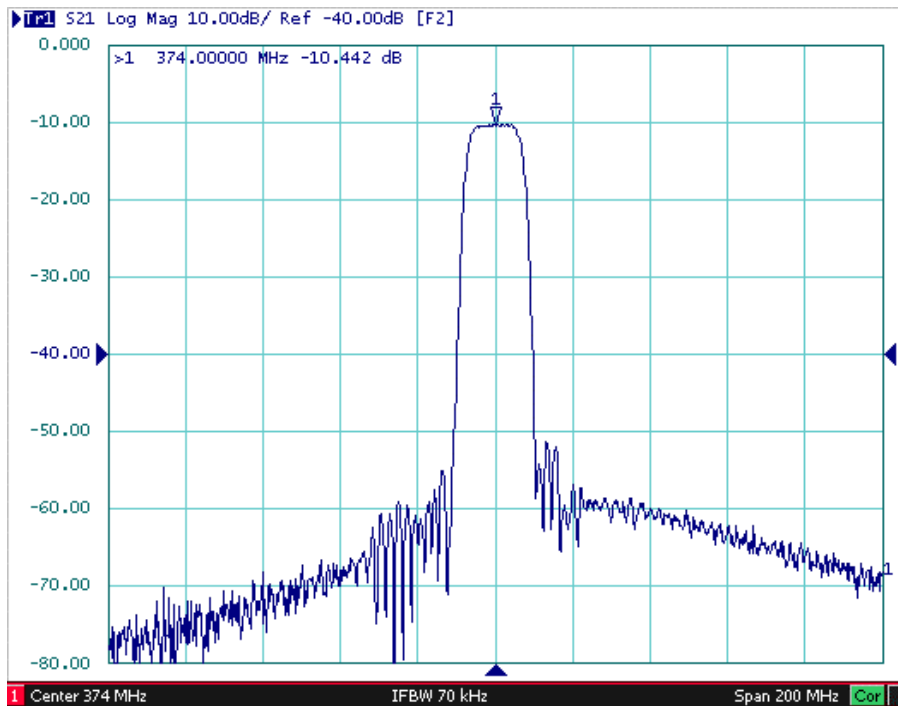
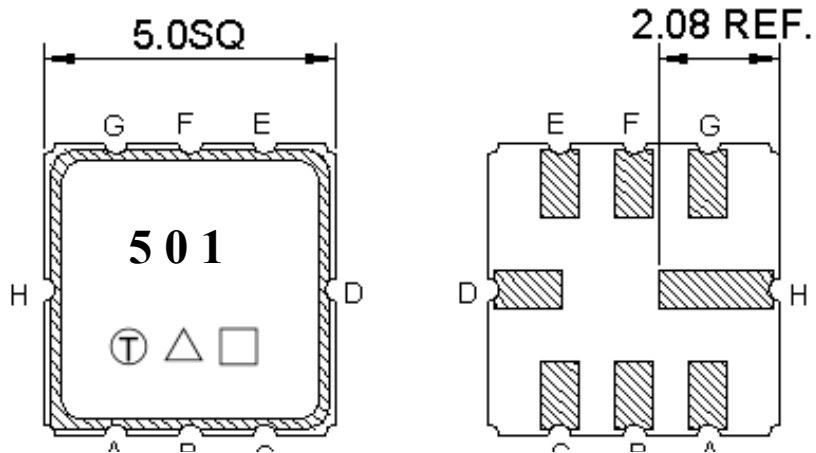


Fig. 4 Passband Horizontal: 20MHz; Vertical: 10dB/Div

**D. Outline Drawing:**



**Pin configuration**

#C RF Input

#B RF Input ground

#G RF Output

#F RF Output ground

#A,D,E,H To be ground

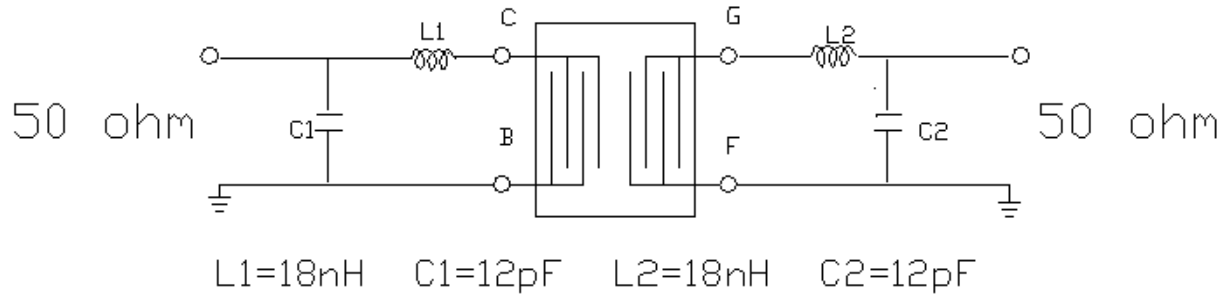
□ : Week Code (Follow the table from planner each year)

△ : Product / Year Code

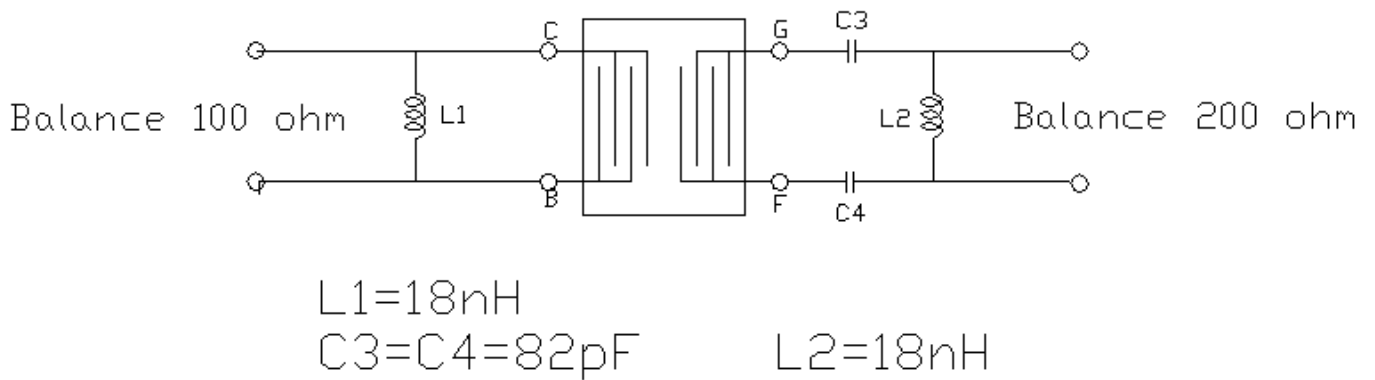
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

**E. Measurement Circuit:**

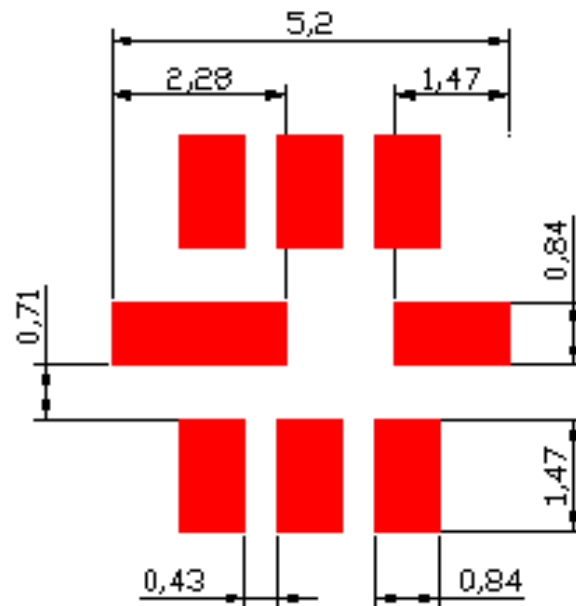
(1) Single end input 50 ohm to Single end output 50 ohm



(2) Balanced input 100 ohm to Balanced output 200 ohm

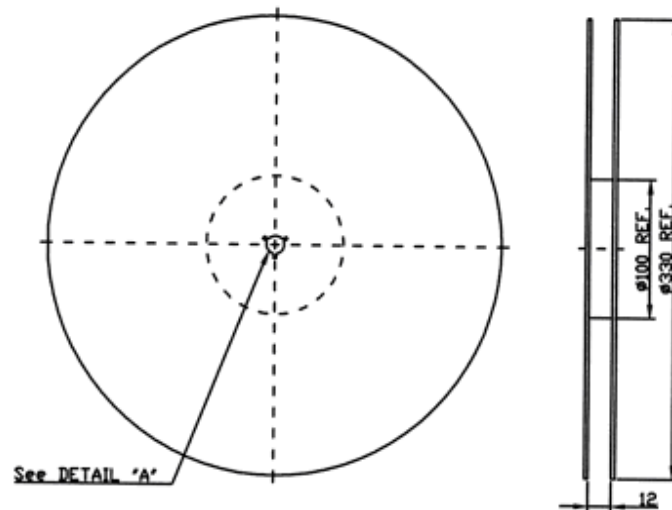


## F. PCB Footprint



## G. PACKING:

### (1). REEL DIMENSION



(2). TAPE DIMENSION

