



# TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales@mail.taisaw.com](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 35.46 MHz (SMD 13.3mmX6.5mm)

TST Parts No.:TB0386A

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

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

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

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

Date: \_\_\_\_\_ 2006/11/01



# TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales@mail.taisaw.com](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## IF SAW Filter 35.46 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0386A

REV. NO. 1

### A. MAXIMUM RATING:

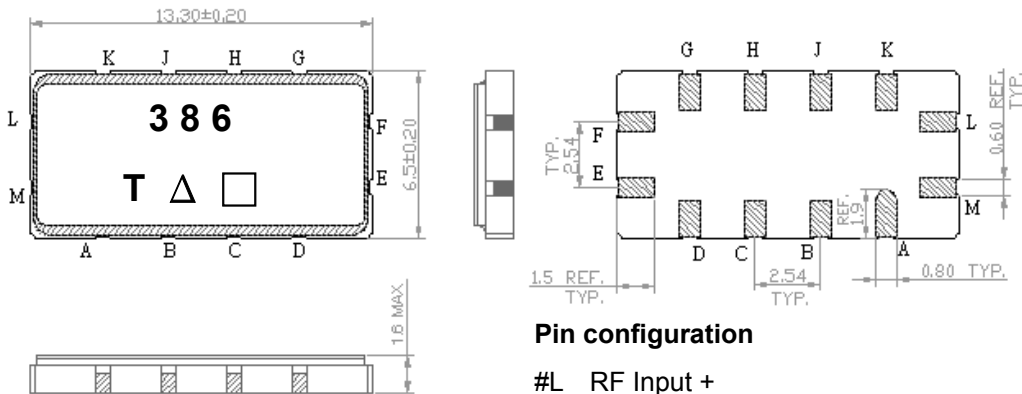
- 1. Operating Temperature: -40 °C ~ +85 °C
- 3. Storage Temperature: -40 °C ~ +85 °C

### B. Characteristics :

- 1. Ambient Temperature: 25 °

Characteristics	Value			Note.
	Min.		Max.	
Center frequency $F_c$ MHz	-	35.46	-	-
Maximum Insertion loss I.L. dB	-	17.4	20.0	-
1dB Bandwidth MHz	-	8.82		
21dB Bandwidth MHz	-	10.8	11.4	
30dB Bandwidth MHz	-	11.4	12.0	
Passband Ripple ( $F_c \pm 4$ MHz) dB	-	0.9	1.6	-
Group Delay Ripple ( $F_c \pm 4$ MHz) nS	-	180	300	-
Temp Coefficient ppm/° C		-87		
Attenuation:( Reference level from minimum insertion loss)				
1) DC~ 28 MHz dB	35	50	-	-
2) 28MHz ~ 29.46 MHz dB	30	46	-	-
3) 29.46MHz ~ 29.72 MHz dB	21	51		
4) 41.46MHz ~ 45.00 MHz dB	15	29		
5) 45MHz ~ 50 MHz dB	35	40		
5) 50MHz ~ 110 MHz dB	15	26		

**C.OUTLINE DRAWING:**



**Pin configuration**

- #L RF Input +
- #M RF Input -
- #E RF Output +
- #F RF Output -
- #A,B,C,D,G,H,J,K 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>

## D. Frequency Characteristics :

### 1. S21 Response

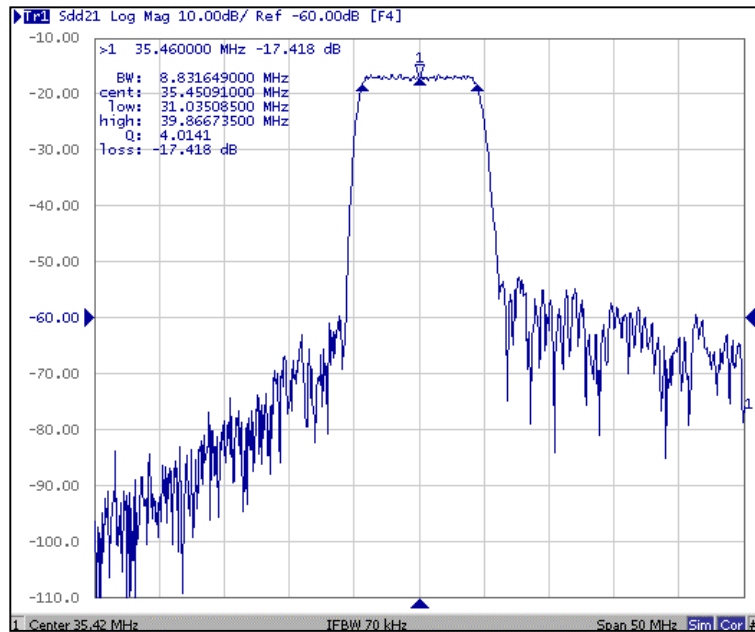


Fig-1 S21 Response Horizontal: 5MHz/Div Vertical: 10dB/Div

### 2. Pass band Ripple and Group Delay Ripple

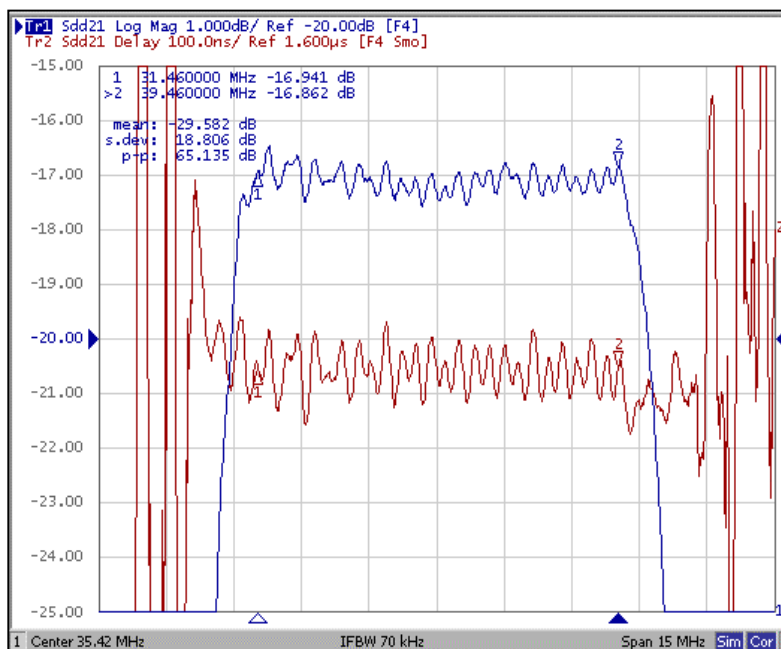


Fig-2 S21 Response Horizontal: 1.5MHz/Div Vertical: 1dB/Div  
100ns/Div

### 3. Wideband Response

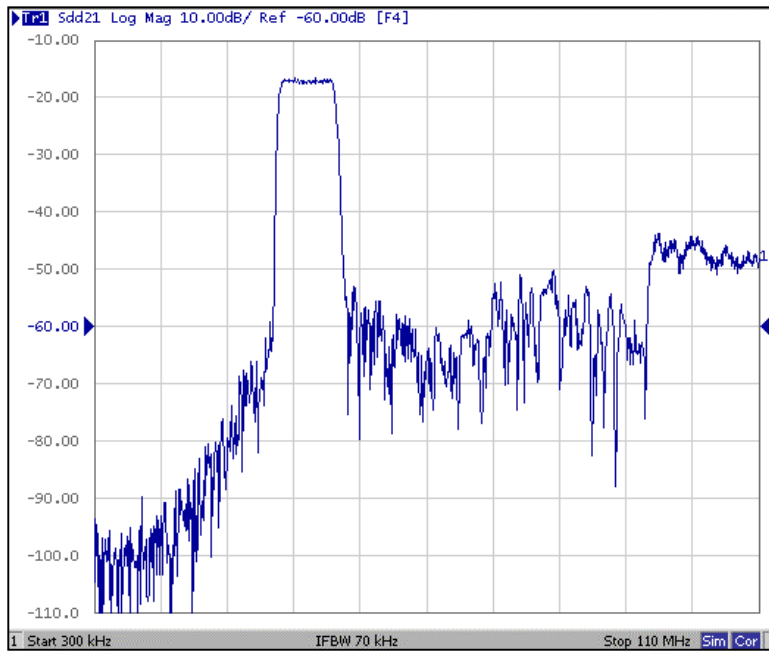
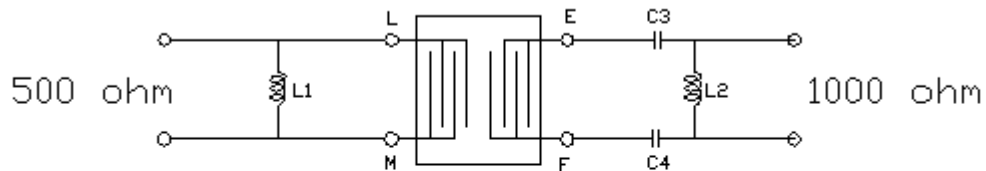


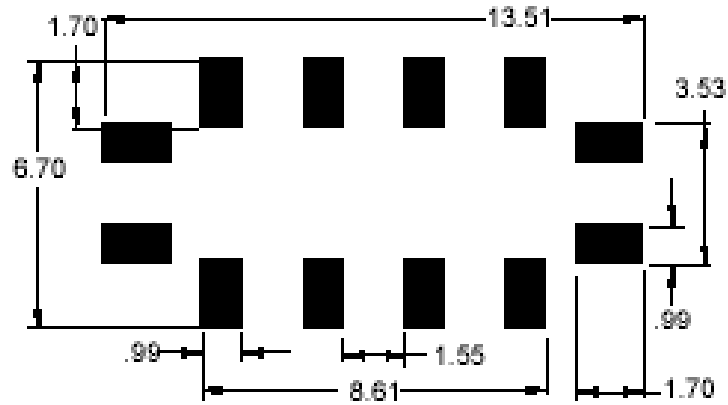
Fig-2 S21 Response Horizontal: 11MHz/Div Vertical: 1dB/Div

### E. TEST FIXTURE :



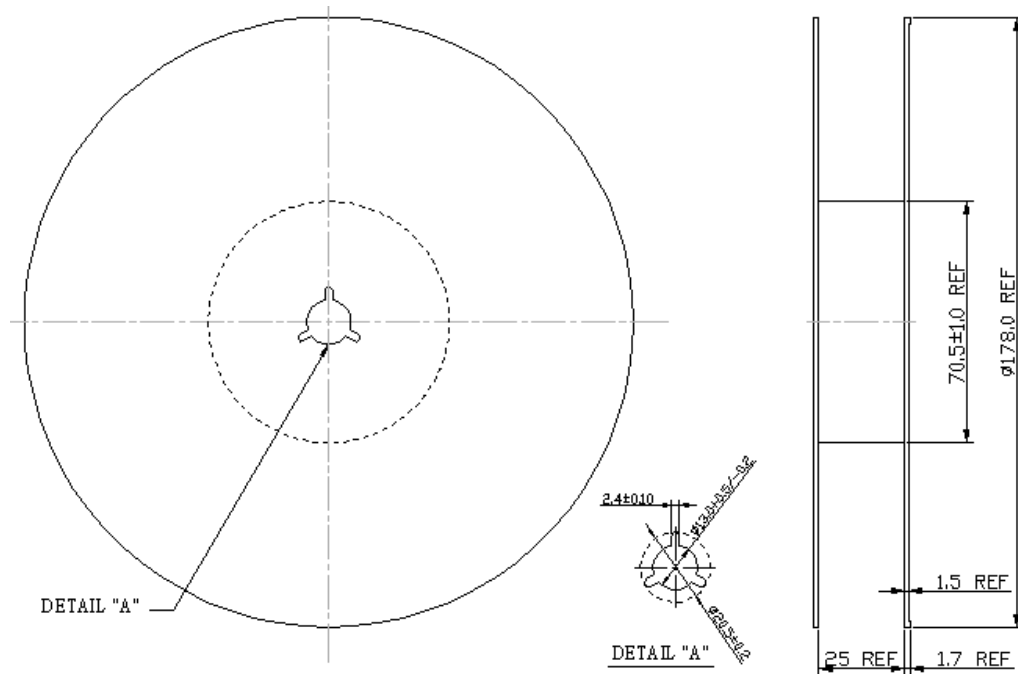
$$C1=C2=100\text{pF} \quad L1=390\text{nH} \quad L2=1560\text{nH}$$

## F. PCB FOOTPRINT



## G. PACKING:

### 1. REEL DIMENSION



## 2. TAPE DIMENSION

