



# 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 70 MHz (SMD 13.3mmX6.5mm)

TST Parts No.:TB0460A

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

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

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

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

Date:\_\_\_\_\_ 2006/09/05



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## IF SAW Filter 70MHz SMD 13.3X6.5mm

MODEL NO.: TB0460A

REV.No.2

### A. MAXIMUM RATING:

1. Operating Temperature: -30 °C ~ 80 °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.	Typ.	Max.	
Center frequency $F_c$ MHz	69.8	70	70.2	-
Minimum Insertion loss I.L. dB	-	11.5	13.0	-
1 dB Bandwidth MHz	-	11.77	-	-
3 dB Bandwidth MHz	-	12.77	-	-
40 dB Bandwidth MHz	-	16.00	18.25	-
Passband Ripple ( $F_c \pm 5\text{MHz}$ ) dB	-	0.46	1.00	-
Group Delay Ripple ( $F_c \pm 5\text{MHz}$ ) nsec	-	30	90	-
Triple transit suppression dB	40	49		
Phase linearity ( $F_c \pm 5\text{MHz}$ ) (p-p) deg	-	5	11	-
Attenuation:( Reference level from minimum insertion loss)				dB
2) $F_c \pm 15\text{ MHz} \dots F_c \pm 30\text{ MHz}$ dB	36	53	-	-
Temp Coefficient ppm/°C		-94	-	-

## C. Frequency Characteristics :

### 1. S21 Response

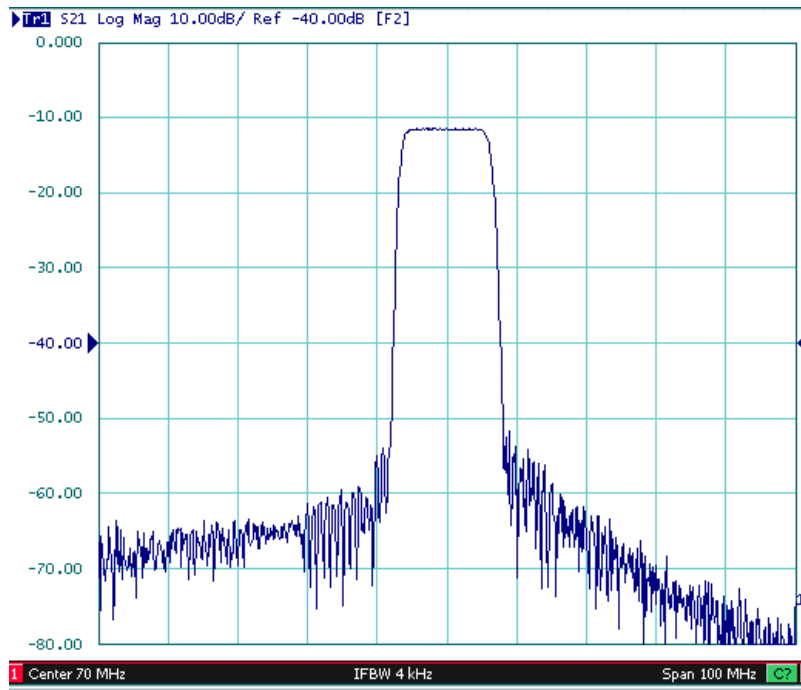


Fig.1 Horizontal : 10MHz/Div Vertical: 10dB/Div

### 2. Passband Ripple

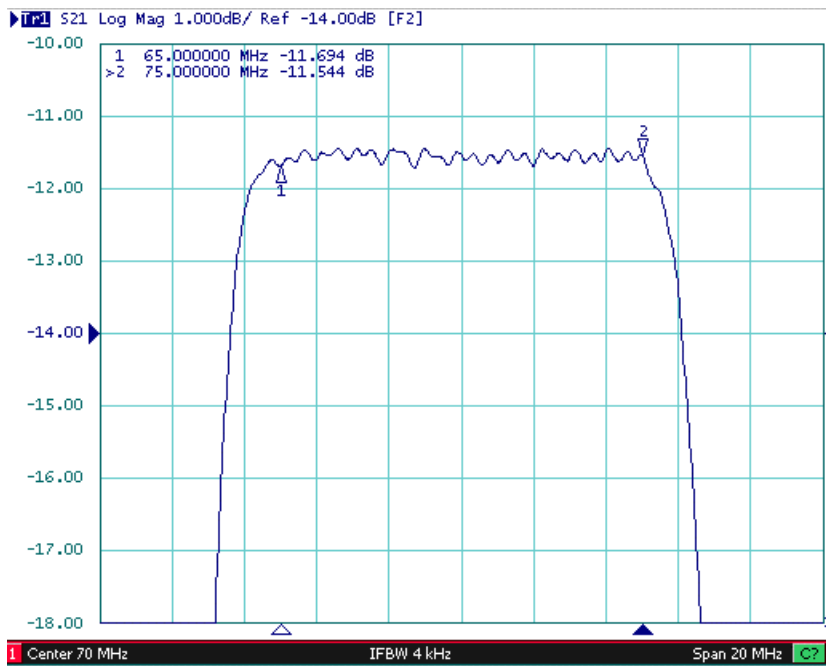


Fig.2 Horizontal : 2 MHz/Div Vertical: 1dB/Div

### 3. Group Delay Ripple

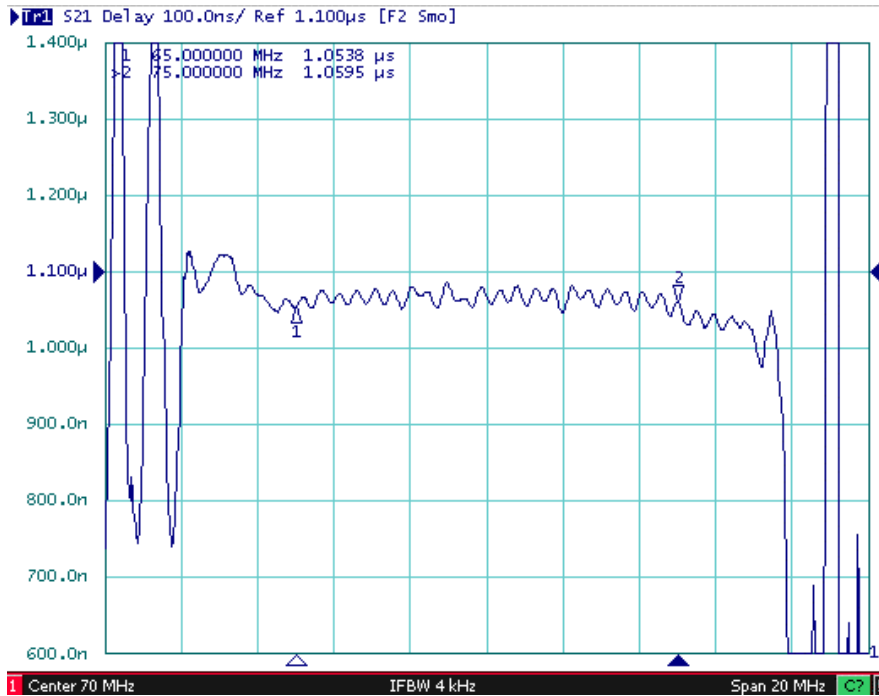


Fig.3 Horizontal : 2 MHz/Div Vertical: 100 nS/Div

### 4. Time domain

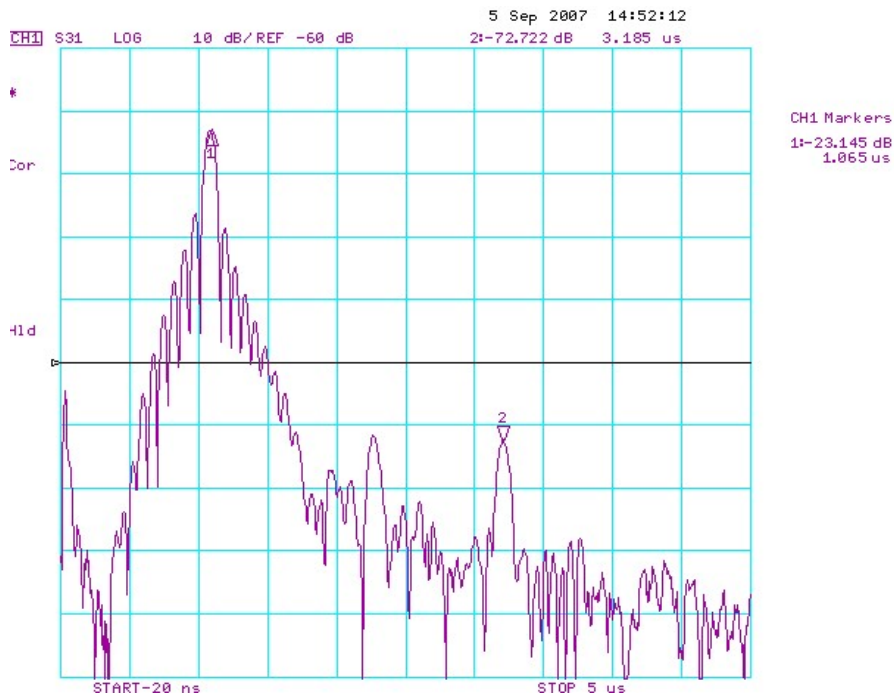
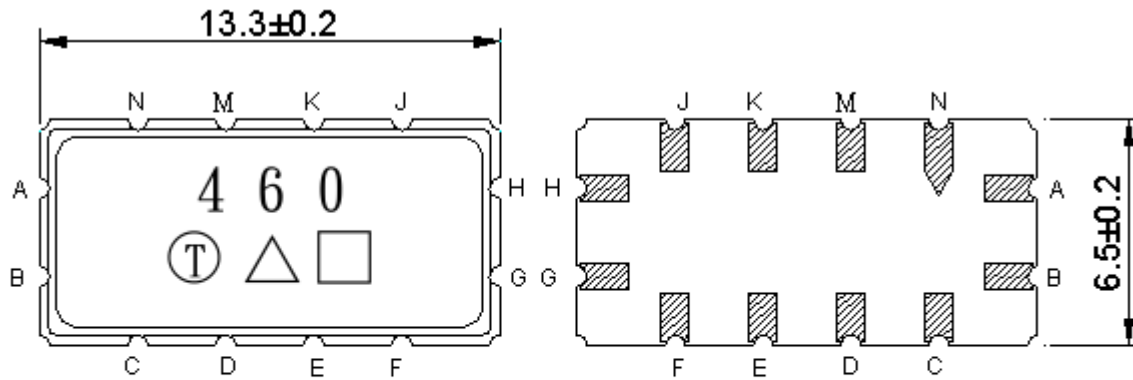


Fig.4 Horizontal : -20nS~5uS Vertical: 10 dB/Div

**D. Outline Drawing:**



**Pin configuration**

#A RF Input

#B RF Input ground

#G RF Output

#H RF Output ground

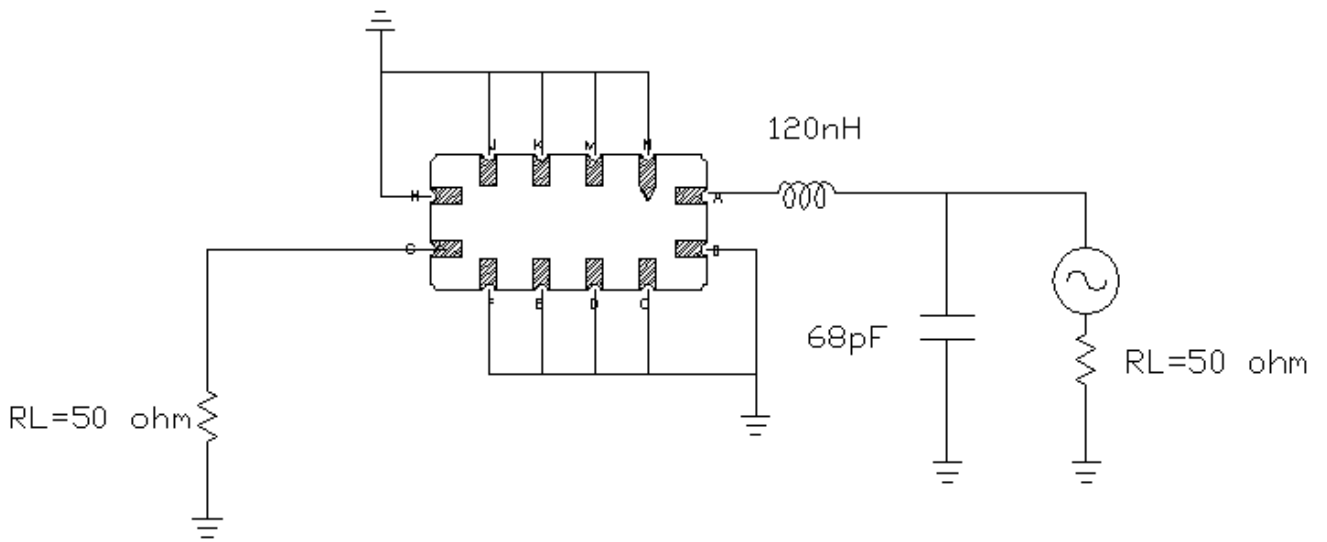
#C,D,E,F,J,K,M,N To be ground

□ : 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. TEST FIXTURE :**



**F. PCB FOOTPRINT**

