



TAI-SAW TECHNOLOGY CO., LTD.

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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



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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

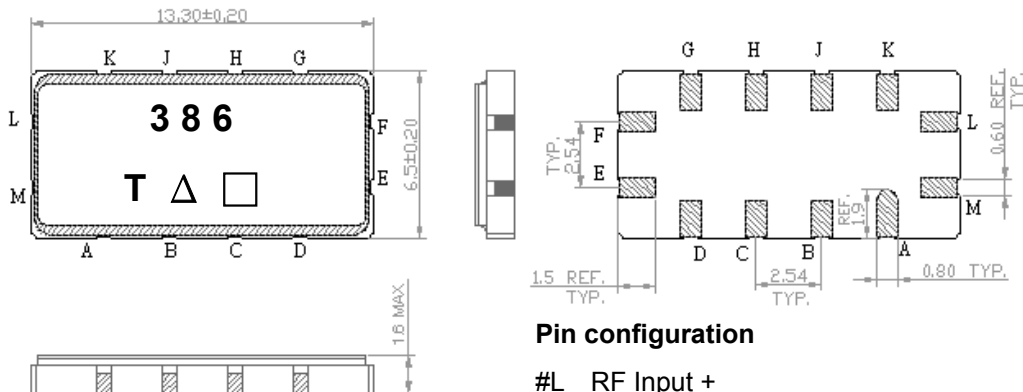
3. Storage Temperature: -40 °C ~ +85 °C

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

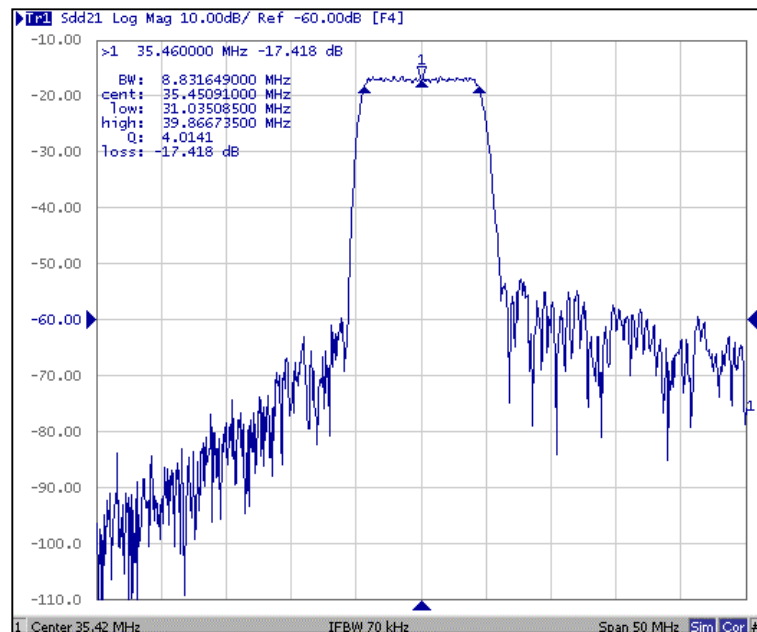


Fig-1 S21 Response Horizontal: 5MHz/Div Vertical: 10dB/Div

2. Pass band Ripple and Group Delay Ripple

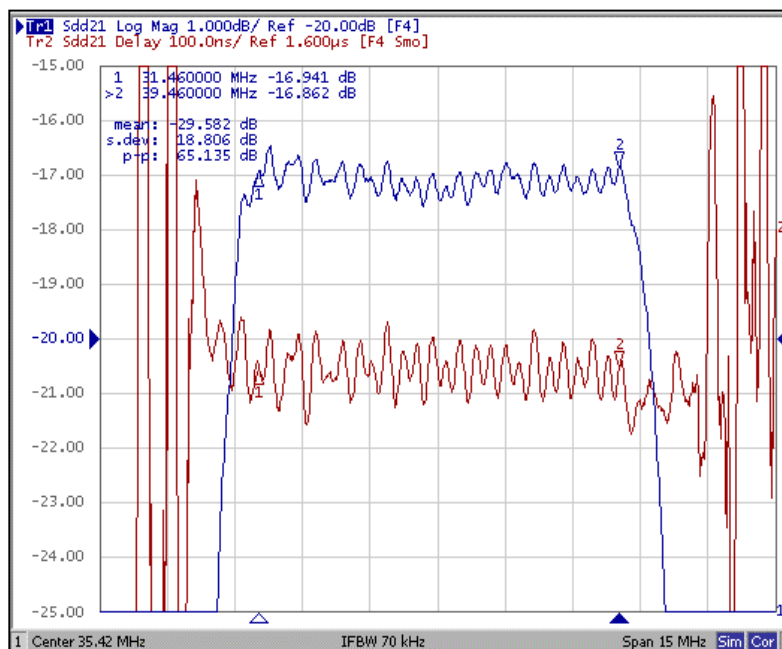


Fig-2 S21 Response Horizontal: 1.5MHz/Div Vertical: 1dB/Div
100ns/Div

3. Wideband Response

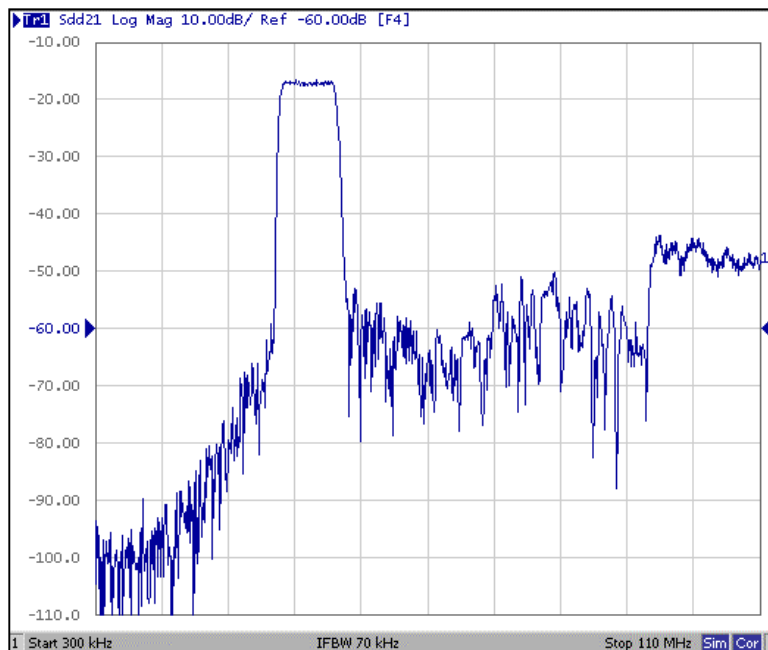
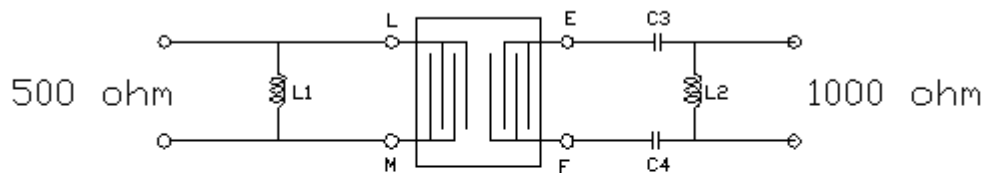


Fig-2 S21 Response Horizontal: 11MHz/Div Vertical: 1dB/Div

E. TEST FIXTURE :



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

2. TAPE DIMENSION

