



TAI-SAW TECHNOLOGY CO., LTD.

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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

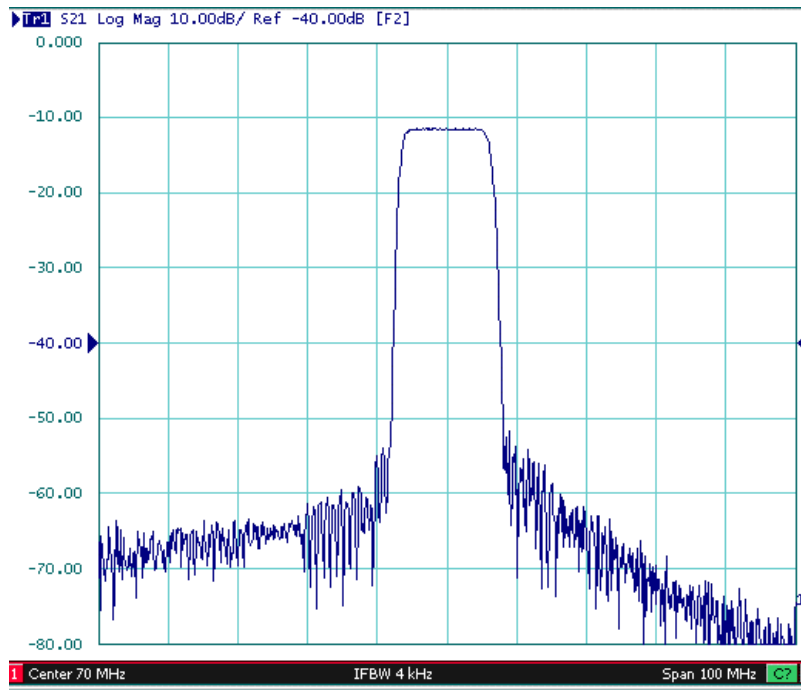


Fig.1 Horizontal : 10MHz/Div Vertical: 10dB/Div

2. Passband Ripple

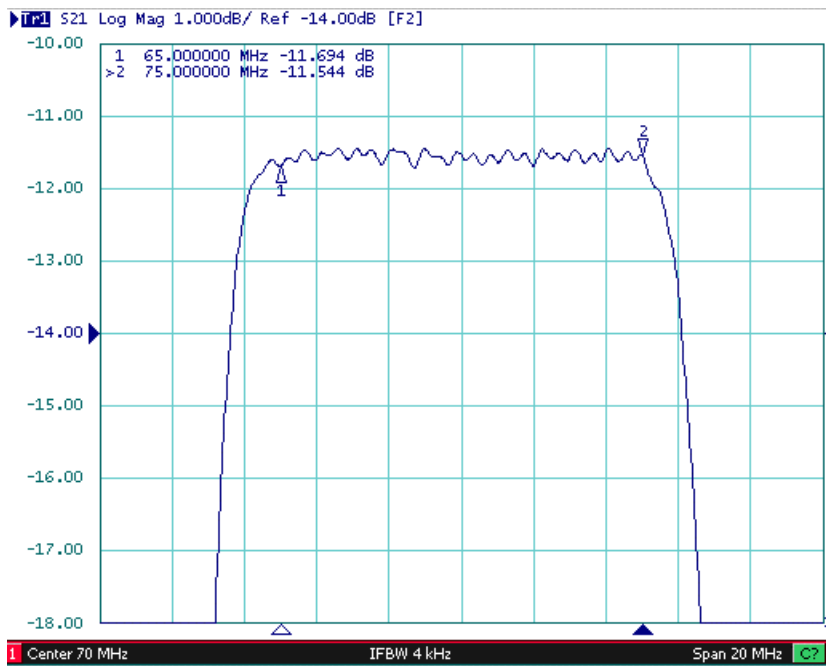


Fig.2 Horizontal : 2 MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

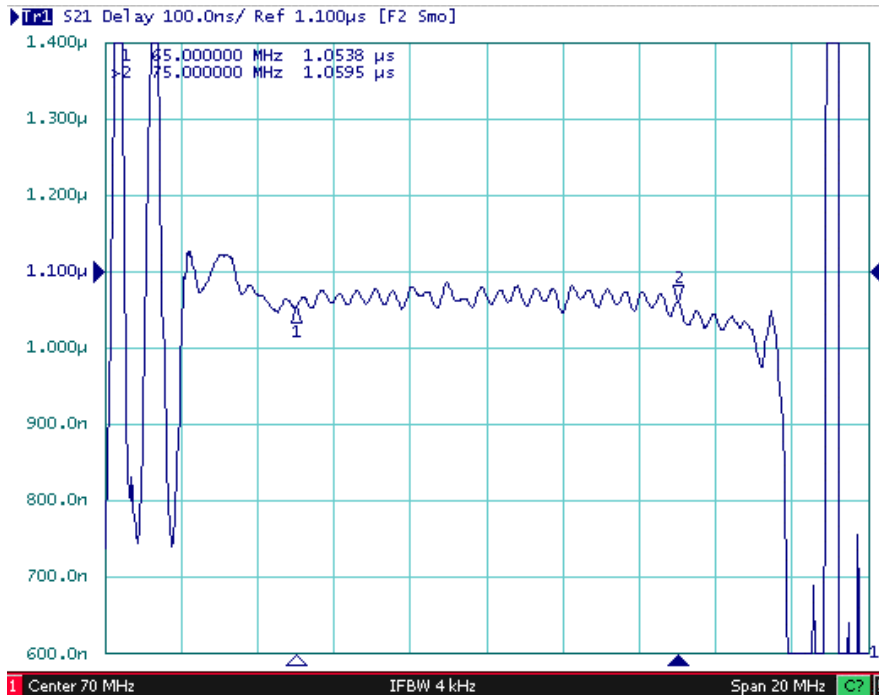


Fig.3 Horizontal : 2 MHz/Div Vertical: 100 nS/Div

4. Time domain

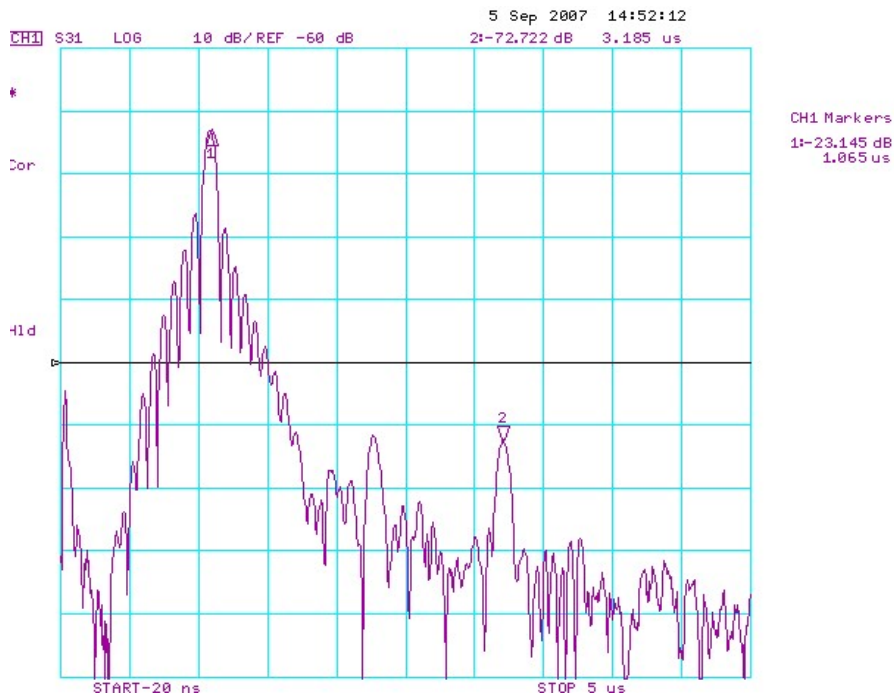
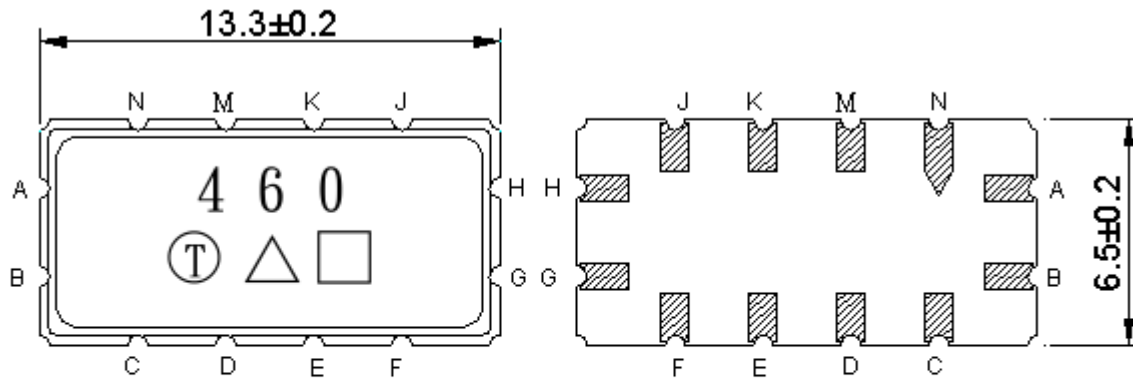


Fig.4 Horizontal : -20nS~5uS Vertical: 10 dB/Div

D. Outline Drawing:



Pin configuration

#A RF Input

#B RF Input ground

#G RF Output

#H RF Output ground

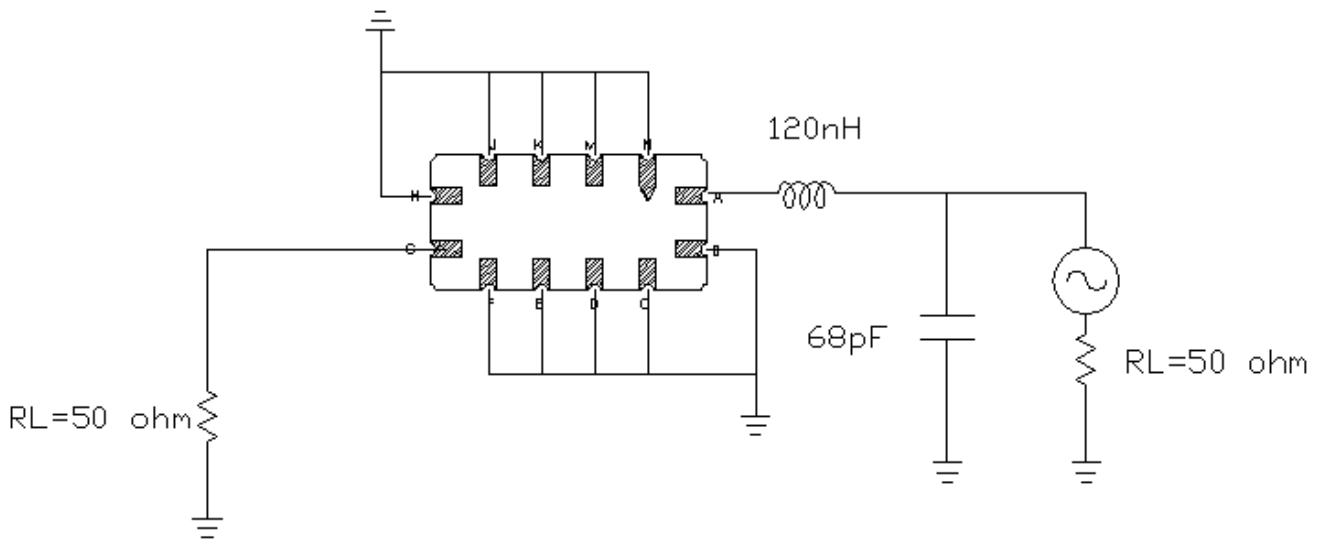
#C,D,E,F,J,K,M,N To be ground

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

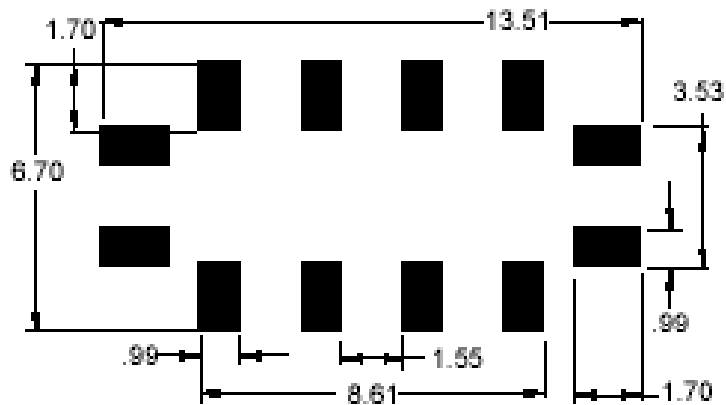
△ : Product / Year Code

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

E. TEST FIXTURE :

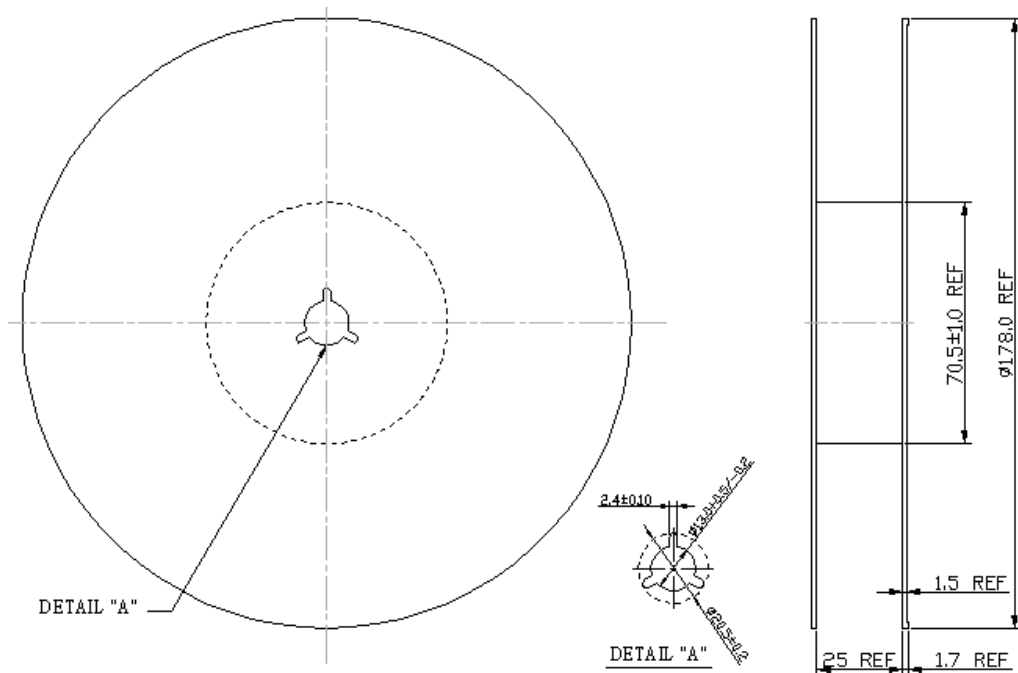


F. PCB FOOTPRINT



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

