



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 71MHz

TST Parts No.: TB0630A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 2008/05/22



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SAW Filter 71MHz (SMD 13.3×6.5 mm)

MODEL NO.: TB0630A

Rev No.1

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Item	Unit	Min.	Typ.	Max.
Center frequency, F_c	MHz	-	71	-
Insertion Loss, IL	dB	-	7.2	8.0
1dB Passband width	kHz	250	330	-
Amplitude Ripple F _c +/-125kHz	P-P dB	-	0.9	2.0
Group delay at F _c	usec	1.9	2.34	2.4
Group delay ripple F _c +/-125kHz	nsec	-	550	1500
Relative Attenuation				
F _c +/-300kHz ~ F _c +/-500kHz	dB	15	18	-
F _c +/-500kHz ~ F _c +/-700kHz	dB	30	34	-
F _c +/-700kHz ~ F _c +/-3MHz	dB	35	39	-
F _c +/-800kHz	dB	41	46	-
F _c +/-3MHz ~ F _c +/-35MHz	dB	43	50	-
Temperature Coefficient	ppm/°C ²	-0.036		
Source Impedance (Balanced)	Ohm	200		
Load Impedance (Balanced)	Ohm	200		

Note: The Insertion loss includes loss of balun

C. Frequency Characteristics :

1. S21 Response(Span 5MHz)

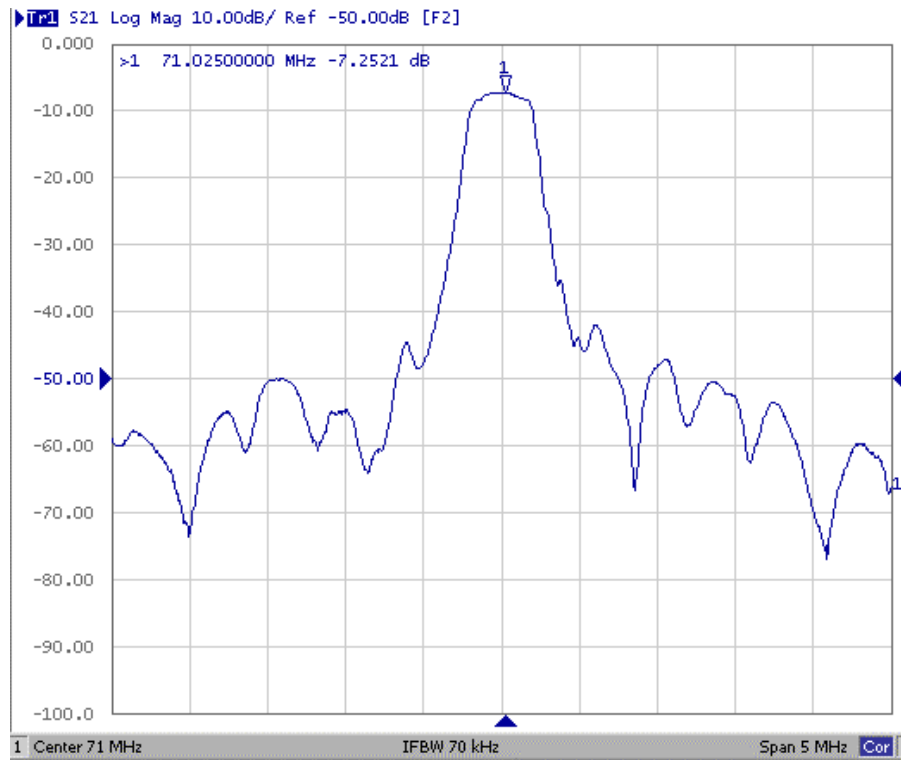


Fig1. Horizontal: 0.5MHz/Div Vertical: 10dB/Div

2. S21 Response(Span 1MHz)

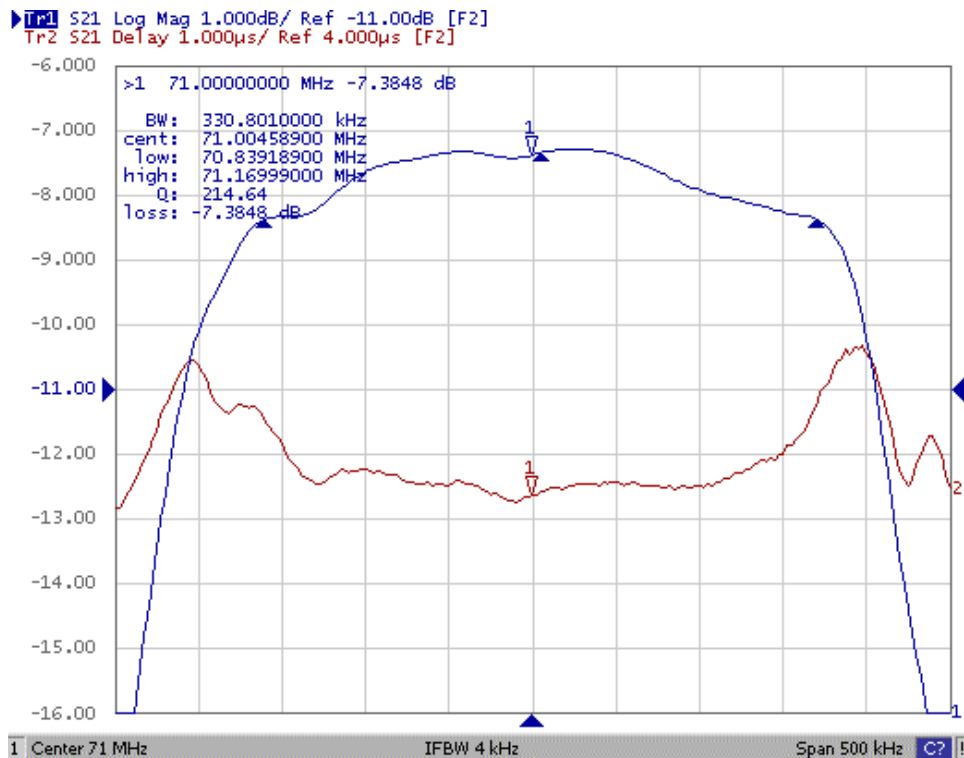
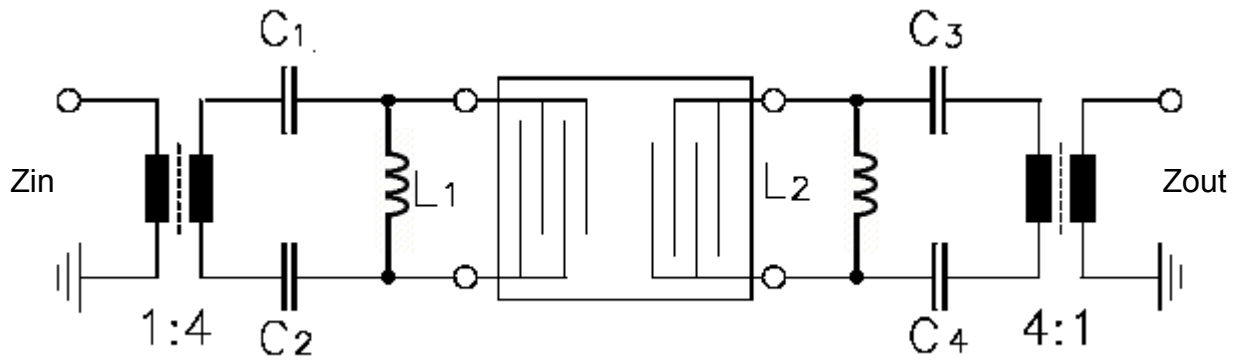


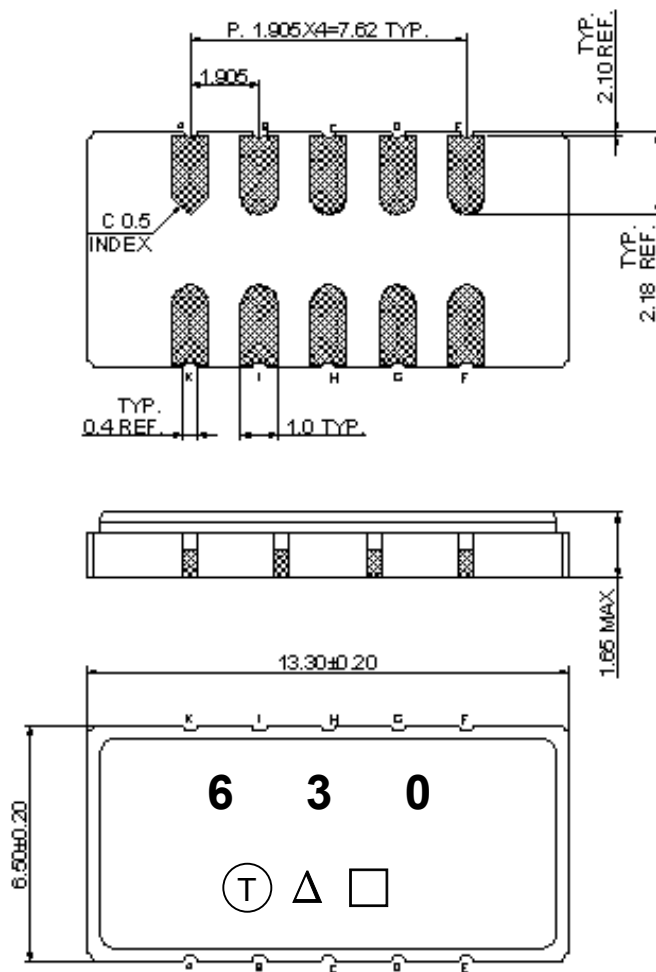
Fig2. Horizontal: 0.05MHz/Div; Vertical: 1dB/Div,
Vertical: 1uS/Div

D. Measurement Circuit:



L1 =297nH C1=C2=9pF L2=306nH C3=C4=8pF
Zin=Zout=50ohm

E. Outline Drawing:



Pin configuratoin

- Pin A,K: input
- Pin F,E: output
- Pin B, C, D, G, H, J: To be Ground

