



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: Low-Loss 70MHz IF SAW Filter (BW=3.0MHz)

TST Parts No.: TB0195A

Customer Parts No.: _____

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

Checked by: _____ Vincent Chiu

Approval by: _____ Francis Chen

Date: _____ 26 Sep. 2003



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Low-Loss 70 MHz IF SAW Filter (SMD 13.3x6.5 mm)

Model No.: TB0195A

Rev. No.:2

A. MAXIMUM RATING:

RoHS Compliant
Lead free
Lead-free soldering

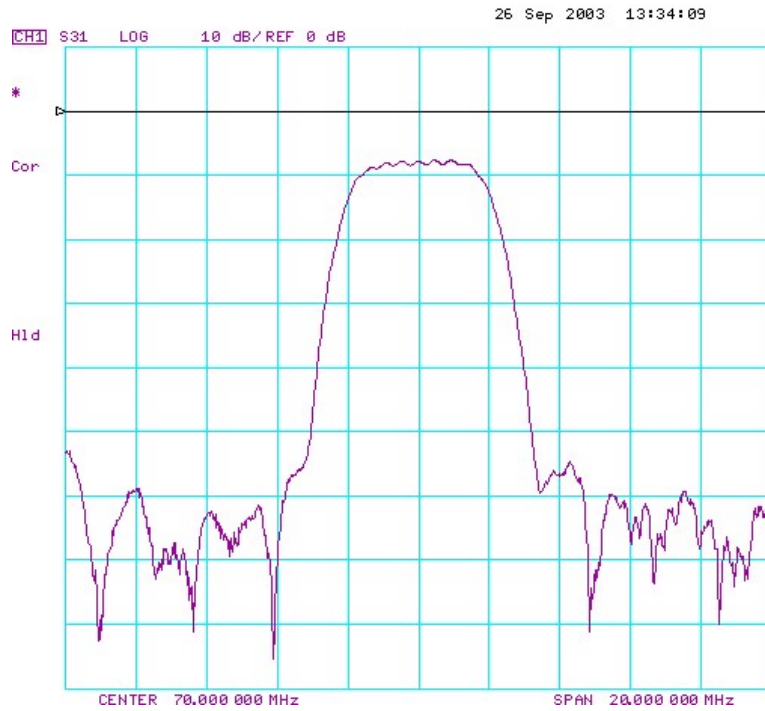
1. Input Power Level: +20 dBm
2. Operating Temperature: -10 °C to 70 °C.
3. Storage Temperature: -40 °C to 85 °C.

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center frequency, F_c	MHz	69.85	70	70.15	
Insertion Loss, IL	dB	-	7.5	8.2	
1 dB Bandwidth	MHz	2.3	2.63	-	
3 dB Bandwidth	MHz	3.0	3.55		
35 dB Bandwidth	MHz		6.0	7.5	
Amplitude ripple within $F_c \pm 0.92$ MHz	dB	-	0.75	1	
Phase Linearity within $F_c \pm 1.2$ MHz (rms)	deg	-	2.2	5	
Group Delay ripple within $F_c \pm 1.2$ MHz	nsec		155	190	
Absolute Delay	µsec	-	1.07	-	
Attenuation (Reference level from Min IL)					
10 ~ 66MHz	dB	40	45	-	
74~140MHz	dB	40	45	-	
Substrate Material	-	-	YZ-LN	-	
Temperature Coefficient	ppm/ °C	-	-94	-	
Ambient Temperature	°C	-	25	-	

C.FREQUENCY CHRACTERISTICS:

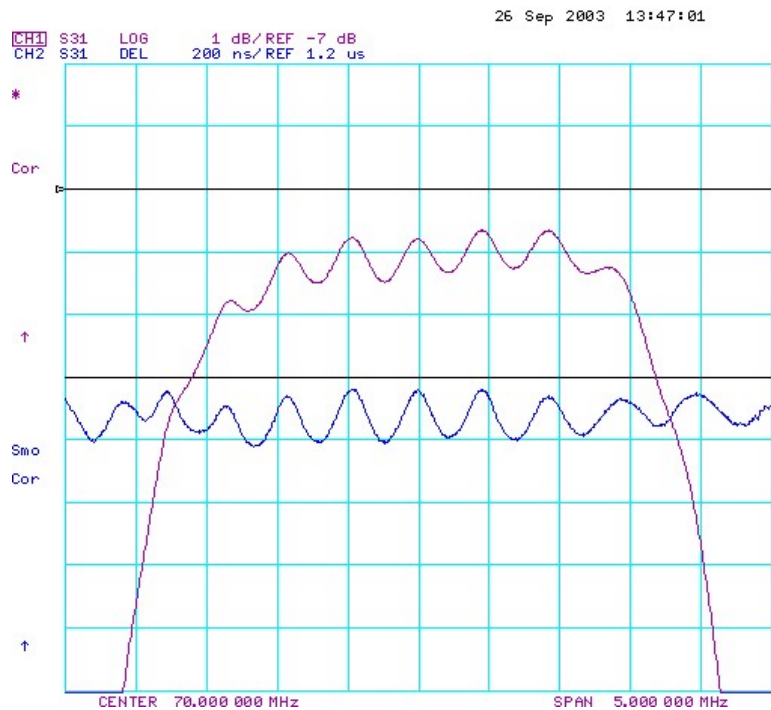
(1) S21 Response:



Horizontal: 2 MHz/Div

Vertical: 10 dB/Div

(2) Group Delay and Ripple



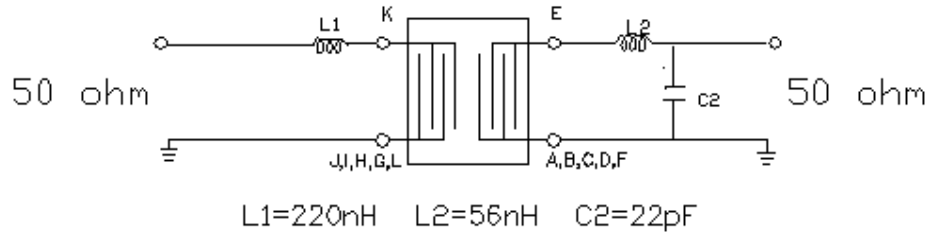
Horizontal: 500 kHz/Div

CH1 Vertical 1: 1 dB/Div

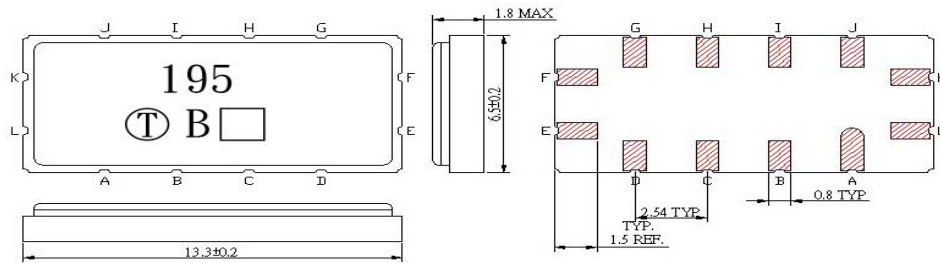
CH2 Vertical 2: 200 nsec/Div

D. MEASUREMENT CIRCUIT:

1) For 50 ohm Unbalanced Input and Output



E. OUTLINE DRAWING:



Unit:mm

- Pin K: RF Input
- Pin E: RF Output
- Pin L: Input Ground
- Pin F: Output Ground
- Pin A, B, C, D, G, H, I, J: To be Ground
- : Date code