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 Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 50MHz

TST Parts No.: TB0281A (package 13.3mm x 6.5 mm)

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Lee

Approval by: Francis Chen

Date: 4/25 /2005

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SAW Filter 50MHz (SMD 13.3×6.5 mm)
MODEL NO.: TB0281A REV. NO.1

RoHS Compliant
Lead free
Lead-free soldering

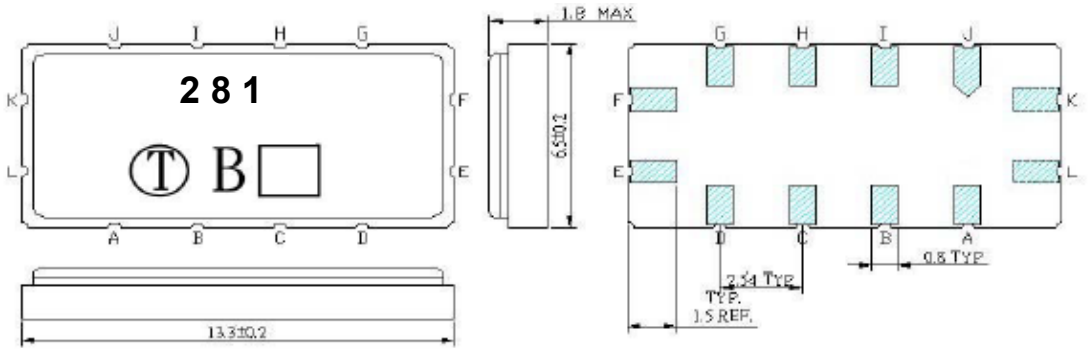
A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -40°C to 65°C
3. Storage Temperature: -40°C to 85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, **Fc**	MHz	49.7	50	50.3	-
Minimum Insertion Loss, **IL**	dB	-	10	11	-
Amplitude ripple at any 200KHz bandwidth within 5.6MHz	MHz	-	0.7	1	-
1dB Bandwidth	MHz	5.62	5.77	-	-
3dB Bandwidth	MHz	-	6.12	6.165	-
40dB Bandwidth	MHz	-	8.22	9.00	-
Group Delay Variation within 5.6MHz BW	nS		150	200	-
Phase Linearity within 5.6MHz BW	rms		2	3	-
Triple transit supression	dB	35	40	-	-
Attenuation:(Reference level from Min IL)					
(1) DC~20MHz	dB	40	48		
(2) 20MHz~45MHz	dB	30	37		
(3) 55MHz~65MHz	dB	30	34		
(4) 65MHz~75MHz	dB	38	42		
(5) 75MHz~135MHz	dB	40	47		

C. 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

D.FREQUENCY CHRACTERISTICS:

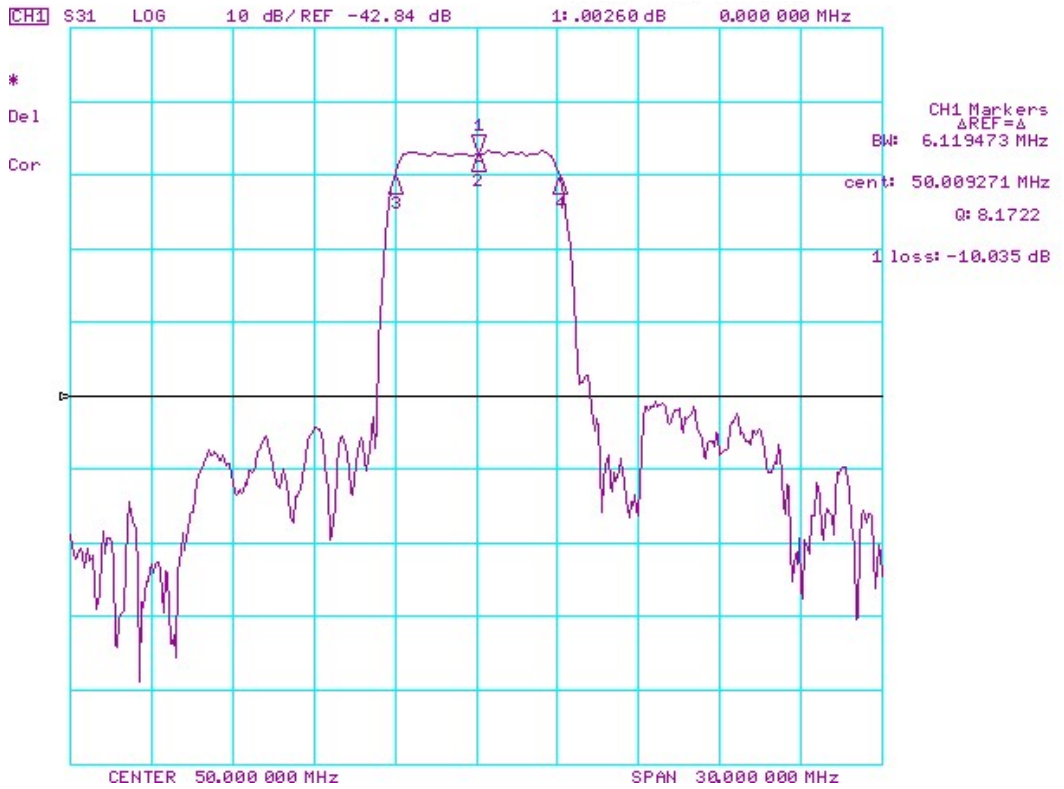


Fig. 1 S21 Response Horizontal: 3MHz; Vertical: 10dB/Div

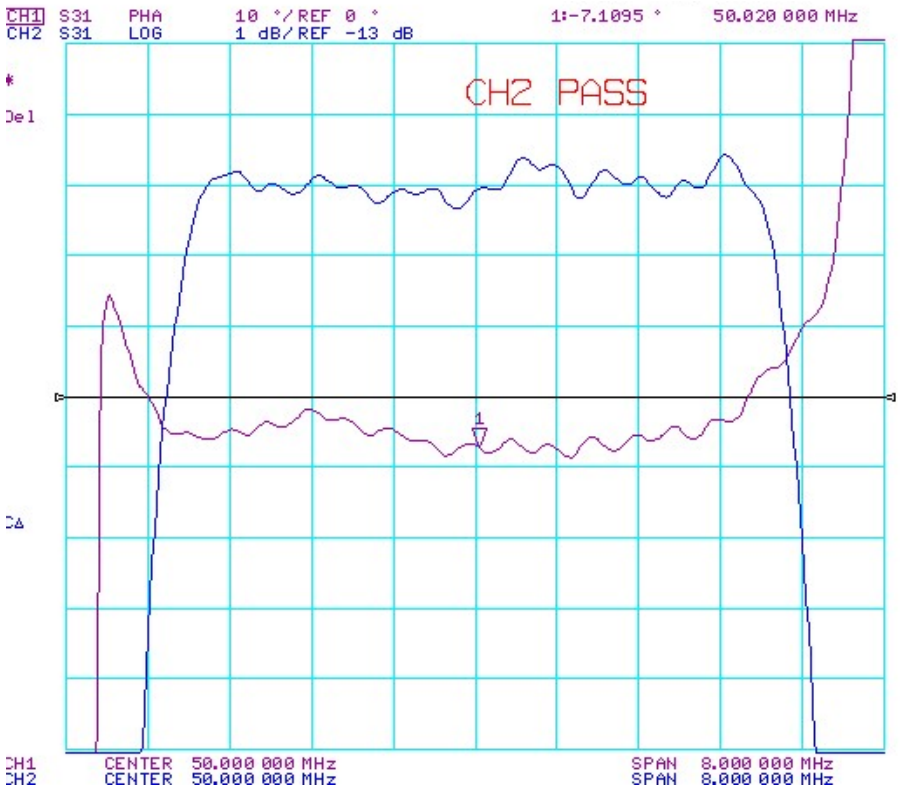


Fig. 2 Inband ripple and phase Horizontal: 0.8MHz; Vertical: 1dB/Div, 10deg/Div

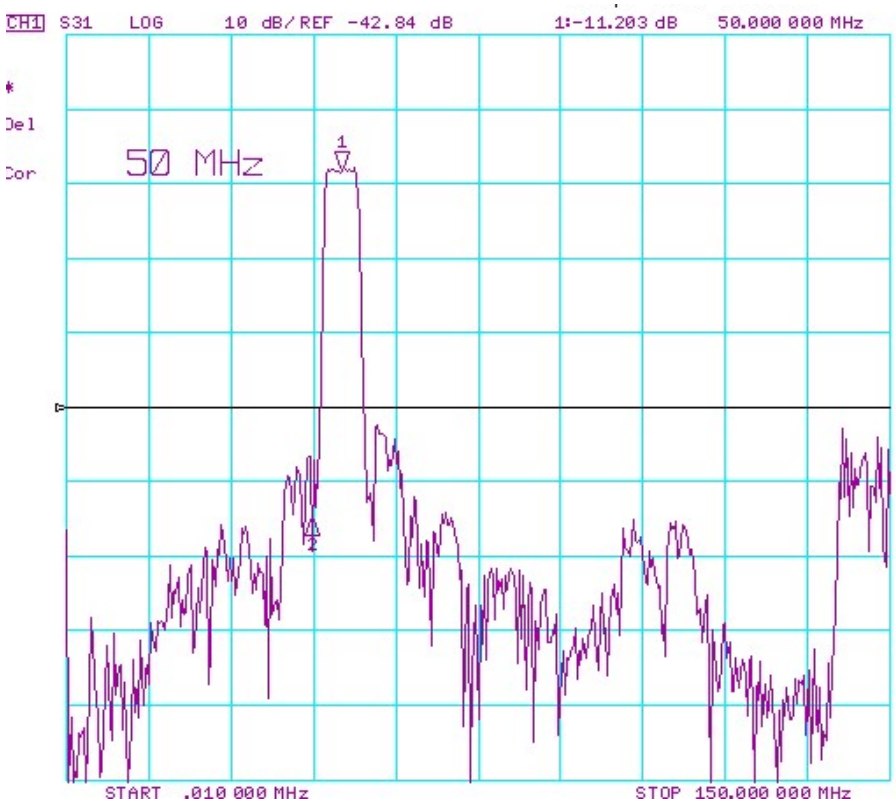


Fig. 3 Wideband response Horizontal: 0.01MHz~150MHz; Vertical: 10dB/Div

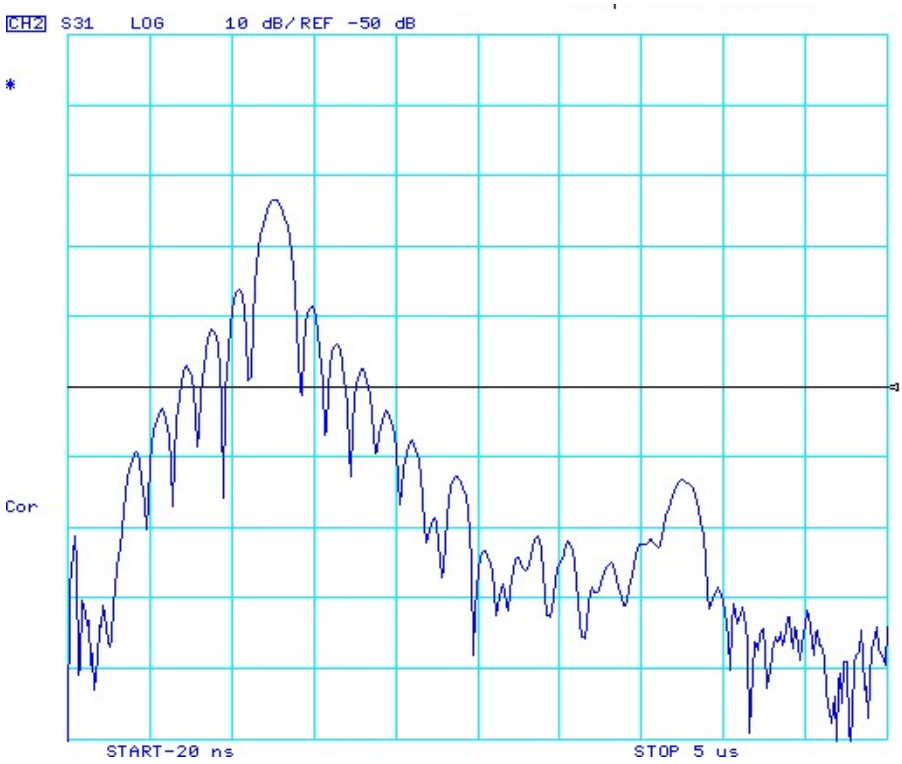


Fig. 4 Time domain response Horizontal: -20nS~5uS; Vertical: 10dB/Div

E.MATCHING CIRCUIT: