



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: 06/24/05

Product Name: SAW Filter 300 MHz SMD 3.0x3.0 mm

TST Parts No.:TB0296A

Customer Parts No.: _____

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

Checked by: _____ Asin Lin

Approval by: _____ Francis Chen

Date: _____ 06/24/05



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SAW Filter 300MHz

MODEL NO.: TB0296A

REV. NO.:1

A. MAXIMUM RATING:

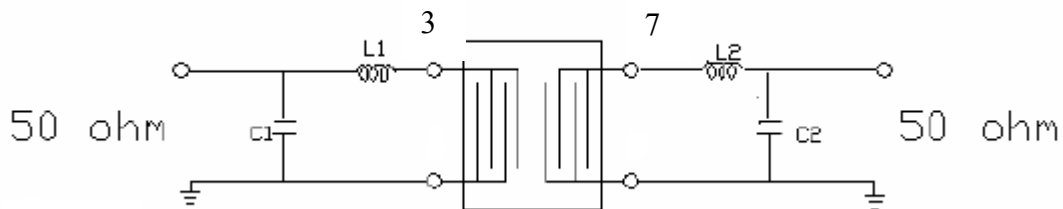
1. Input Power Level : 0 dBm
2. Operating Temperature: -40°C to 85°C
3. Storage Temperature: -40°C to 85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, F_c	MHz	-	300	-	-
Insertion Loss, IL	dB	-	8.3	10	-
Passband width, BW₃	MHz	4.5	7.3	-	-
Amplitude Ripple in F _c ±1MHz	dB	-	0.8	1	-
Group delay ripple in F _c ±1MHz	nS	-	70	100	-
Phase Linearity in F _c ±1MHz	deg		1.6	4	
Attenuation:(Reference level from Min IL)					
10 MHz to 270 MHz	dB	35	38	-	-
270 MHz to 287 MHz	dB	25	28	-	-
313 MHz to 330 MHz	dB	25	32	-	-
330 MHz to 500 MHz	dB	35	40	-	-

C. MEASUREMENT CIRCUIT:



Input L1=39nH, C1=20pF
Output L2=47nH, C2=18pF

D. Frequency Characteristics :

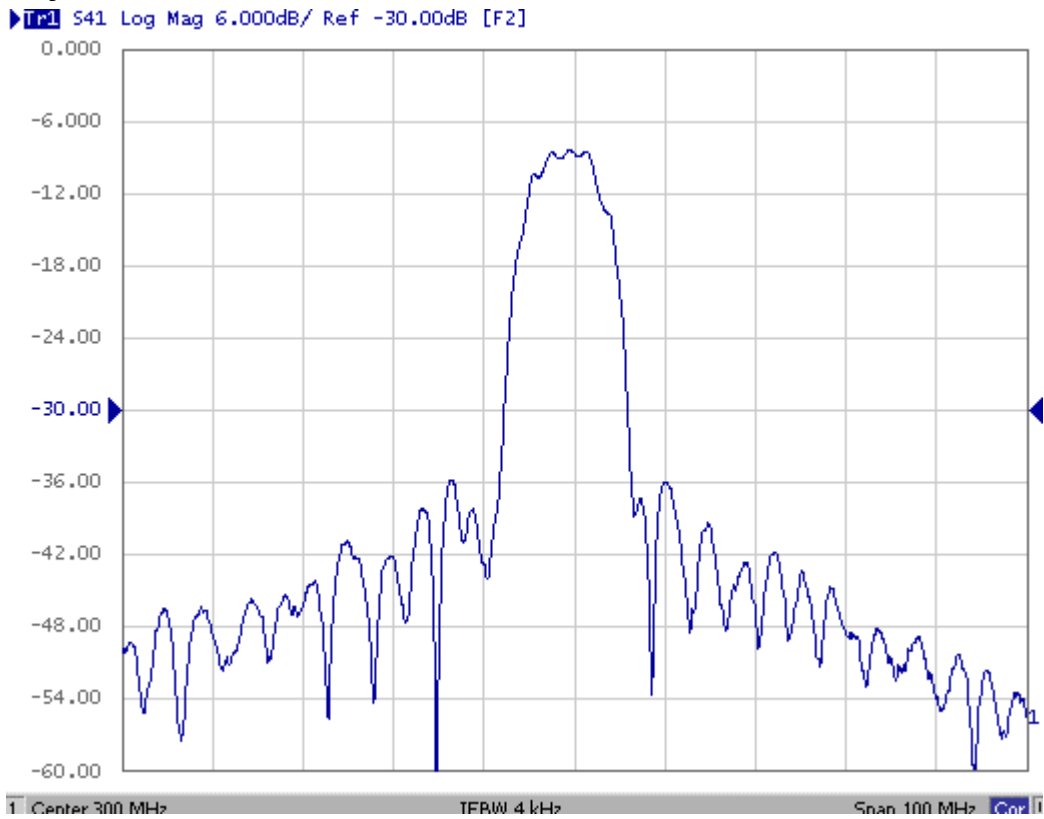


Fig-1 S21 Response Horizontal: 10MHz/Div
Vertical: 6B/Div

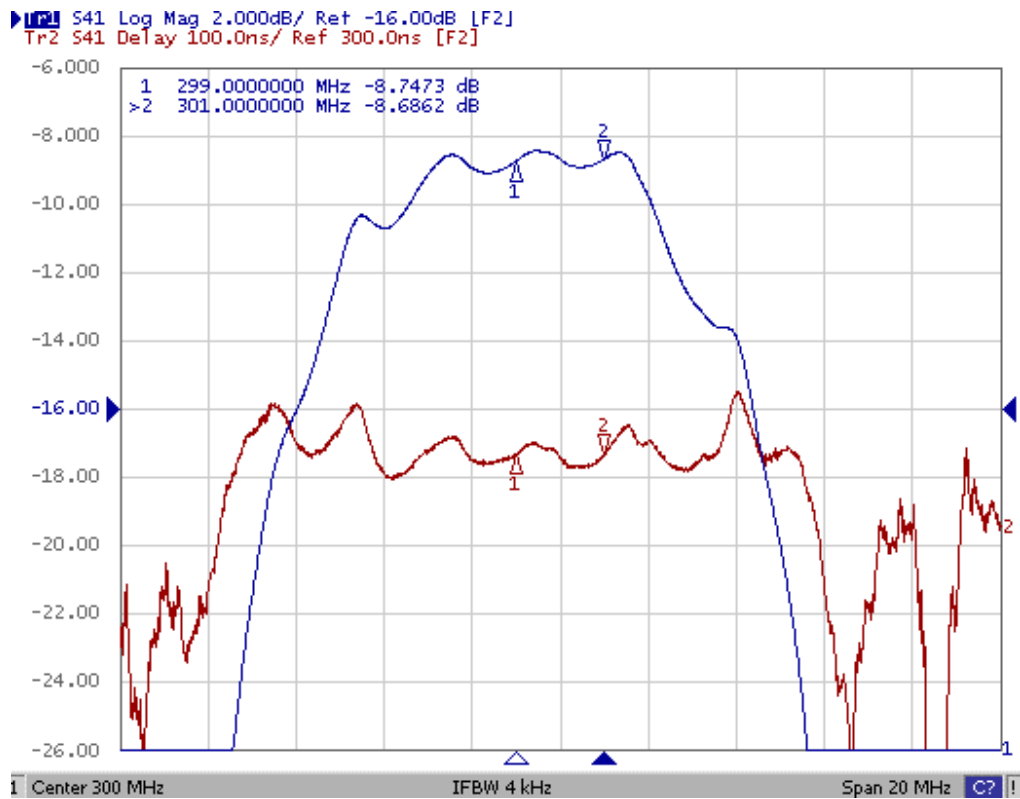
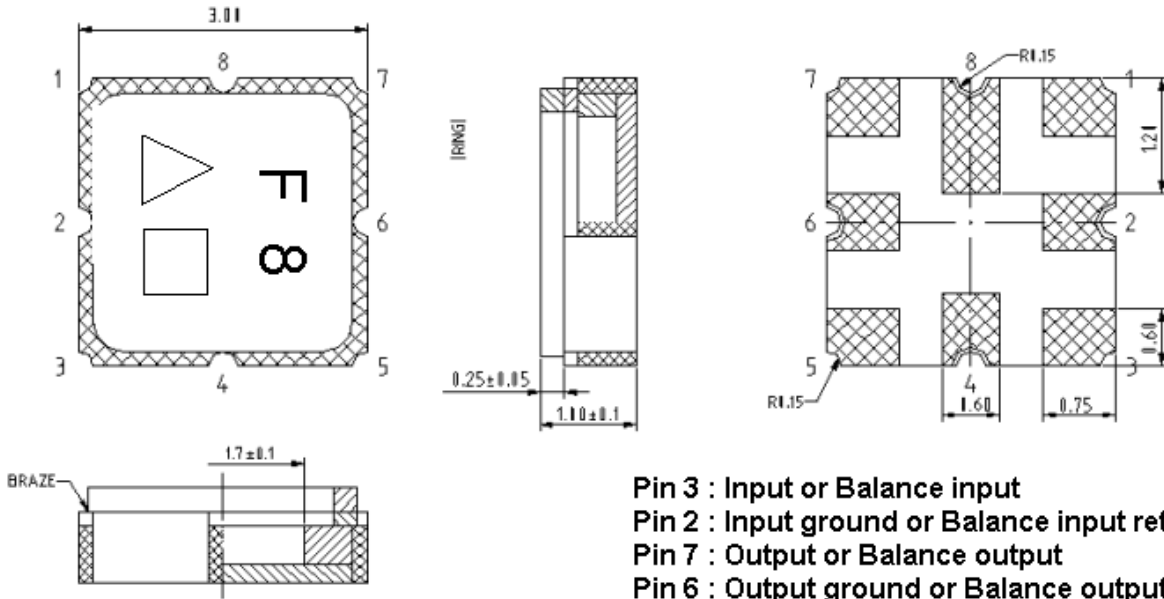


Fig-2 Horizontal: 2M Hz/Div Vertical: 2dB/Div
Vertical: 100Div

E. Outline Drawing :



- Pin 3 : Input or Balance input
- Pin 2 : Input ground or Balance input return
- Pin 7 : Output or Balance output
- Pin 6 : Output ground or Balance output return
- Pin 1,4,5,8 : To be ground
- △ : Year code
- : Date code
- Unit : mm

F. PCB Footprint

