



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 403.5MHz (SMD 3.8×3.8 mm)

TST Parts No.: TB0261A

Customer Parts No.: _____

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

Checked by: _____ Andy Lee

Approval by: _____ Francis Chen

Date: _____ 10,8 ,2004



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SAW Filter 403.5MHz (SMD 3.8×3.8 mm)

MODEL NO.: TB0261A

REV. NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -10°C to 60°C
3. Storage Temperature: -40°C to 85°C

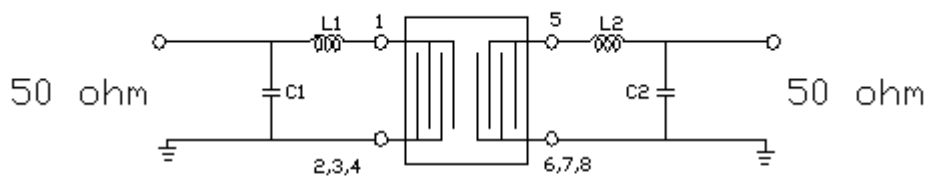
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Characteristics		Value			
		Min.	Typ.	Max.	Note
Center frequency	F_c MHz	-	403.5	-	-
1dB Bandwidth	MHz	3	3.9	-	-
Minimum insertion loss.	dB	-	4.7	5.5	-
Ripple (402MHz.....405MHz)	dB	-	0.8	1.5	-
Phase linearity (402 MHz.....405 MHz) (rms)°		-	1.6	-	-
Return Loss (Input and Output)	dB	-	9	-	-
Attenuation:(Reference level from Minimum insertion loss)					
(1)	303.5MHz~384MHz	25	35	-	-
(2)	384MHz~399MHz	20	26	-	-
(3)	408MHz~423MHz	20	25	-	-
(4)	423MHz~503.5MHz	25	31	-	-

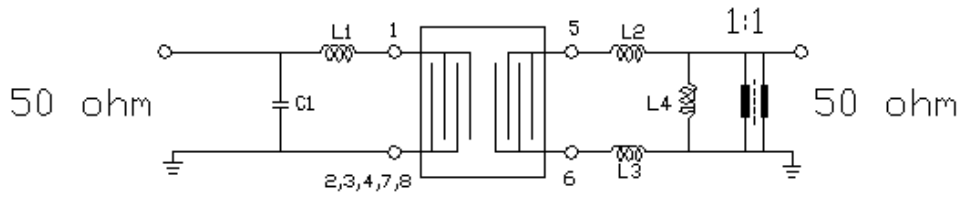
C. MEASUREMENT CIRCUIT:

1. Single Input to Single Output



L1=12nH C1=15pF L2=47nH C2=9pF

2. Single Input to Balanced Output

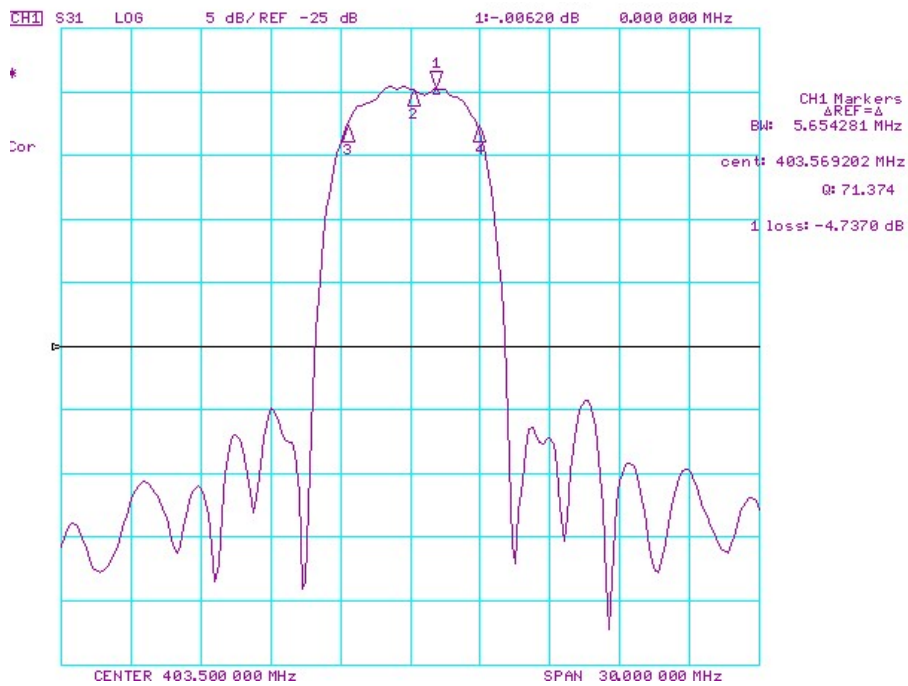


$$L1=12\text{nH} \quad C1=15\text{pF} \quad L2=L3=12\text{nH} \quad L4=33\text{nH}$$

Note: The device balun can offer about 0.6dB loss additionally.

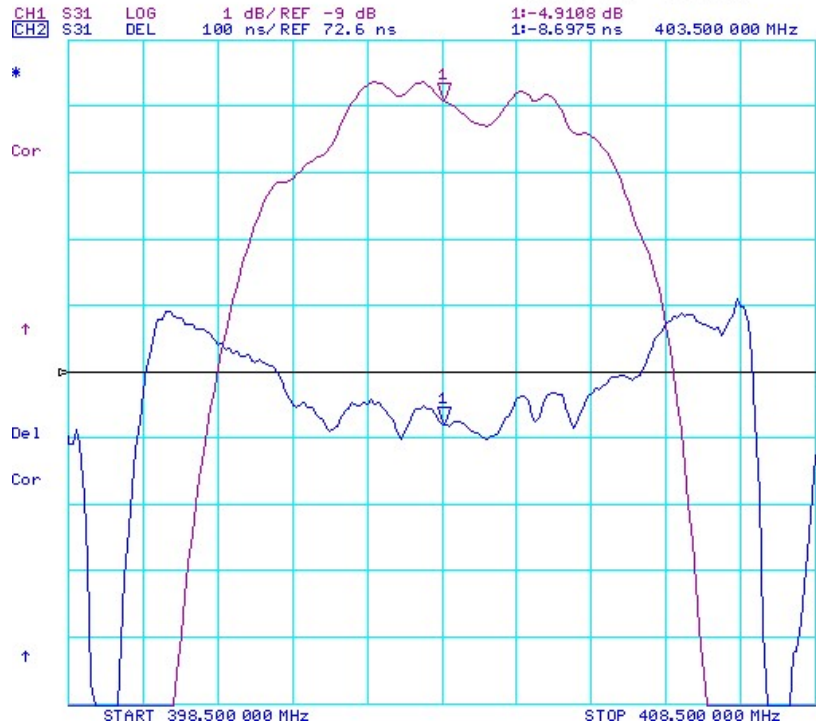
D.FREQUENCY CHARACTERISTICS:

1. Response of S21:



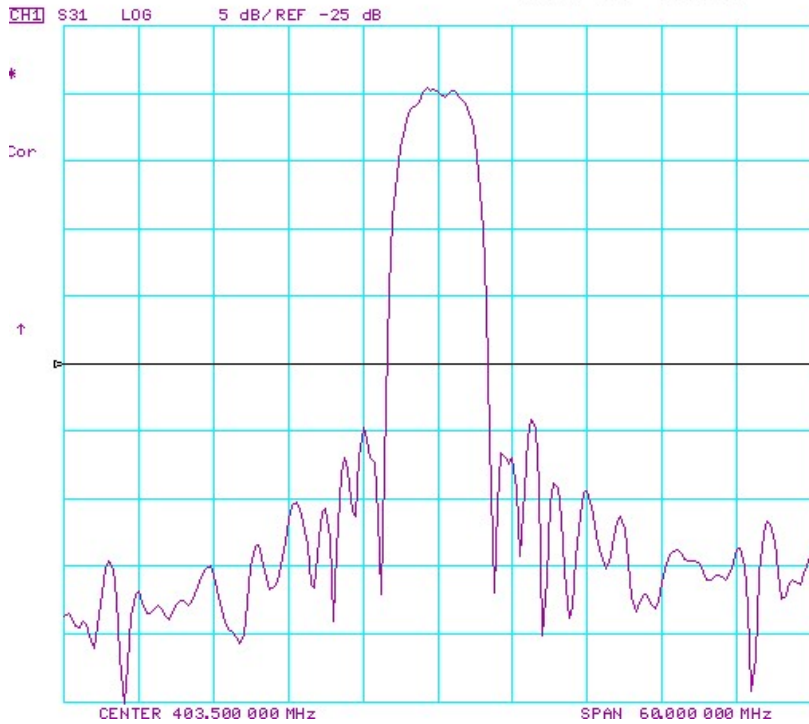
Horizontal: 3MHz/Div Vertical: 5dB/Div Reference: -25dB

(2) Passband of Response:



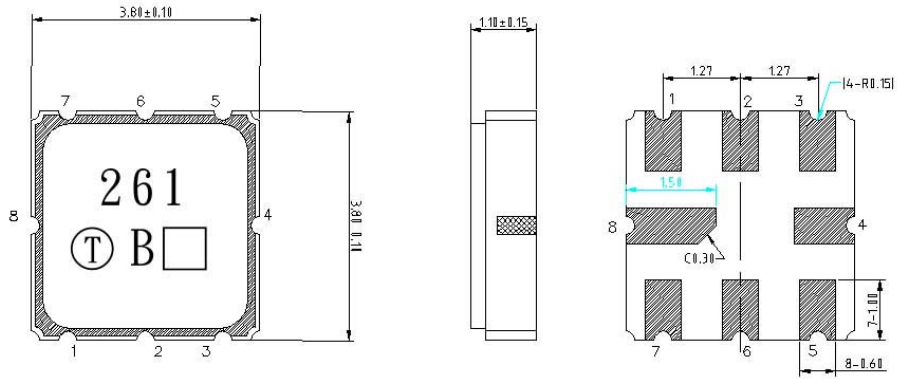
Group Delay and Ripple, Horizontal:1 MHz/Div
 Vertical 1: 1 dB/Div Vertical 2: 100 nS/Div

(3) Wide band of Response:



Horizontal: 6MHz/Div Vertical: 5dB/Div Reference: -25dB

E. OUTLINE DRAWING:



- Pin 1 : RF input
- Pin 5 : RF output or balanced output
- Pin 6 : RF output ground or balance output
- Pin 2, 3, 4, 7, 8 : To be Ground
- : Date code
- Unit : mm

F. PCB FOOTPRINT

