



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 374MHz (SMD 3.8x3.8 mm)

TST Parts No.: TB0210A

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Andy Lee

Approval by: \_\_\_\_\_ Francis Chen

Date: \_\_\_\_\_ 10,28 ,2003



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SAW Filter 374MHz WLAN (SMD 3.8x3.8 mm)

MODEL NO.: TB0210A

REV. NO.:1

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -10°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, <b>F<sub>c</sub></b>	MHz	-	374	-	
Insertion Loss, <b>IL</b>	dB	-	9	10	
Passband width, <b>BW<sub>3</sub></b>	MHz	17	23.4	-	
Amplitude Ripple in F <sub>c</sub> ±7MHz	dB	-	0.7	1	
Group delay ripple in F <sub>c</sub> ±7MHz	nS	-	50	100	
Triple transit suppression	dB	30	38	-	
Attenuation:(Reference level from Min IL)					
274MHz to 330 MHz	dB	40	48	-	
330MHz to 349.5MHz	dB	40	47	-	
349.5MHz to 355 MHz	dB	30	38	-	
393MHz to 398.5MHz	dB	30	44	-	
398.5MHz to 422MHz	dB	35	45		
422MHz to 474MHz	dB	40	49	-	

**C. FREQUENCY CHARACTERISTICS:**

(1) wide band of Response:

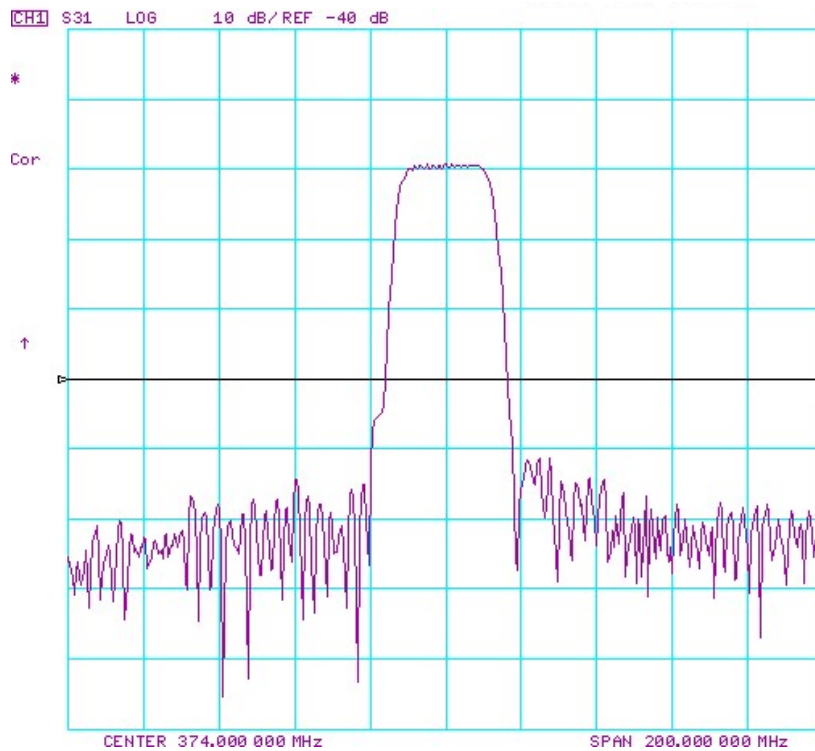


Fig-1 S21 Response Horizontal: 20MHz/Div  
Vertical: 10dB/div REF. : -40dB

(2) Passband of Response:

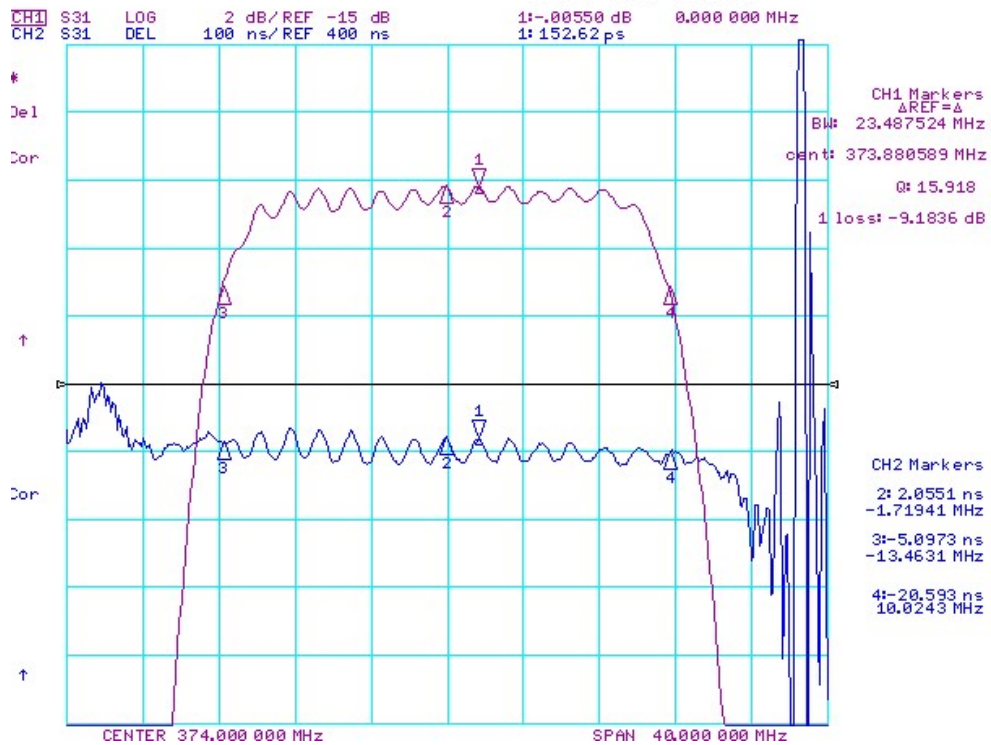
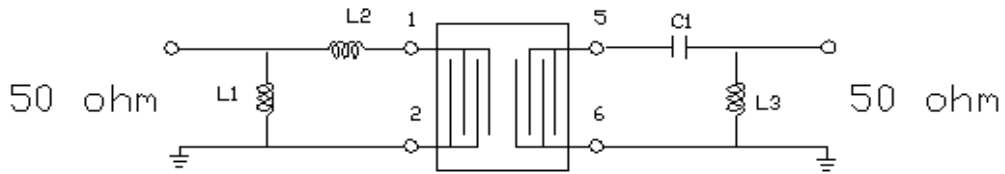


Fig-1 S21 Response Horizontal: 3MHz/Div  
Vertical: 5dB/Div, 100nS

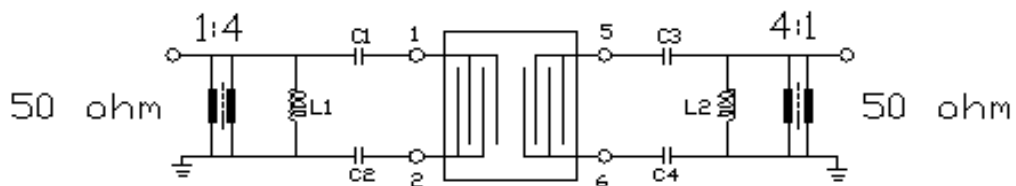
**D. MEASUREMENT CIRCUIT:**

(1) 50 ohm unbalanced:



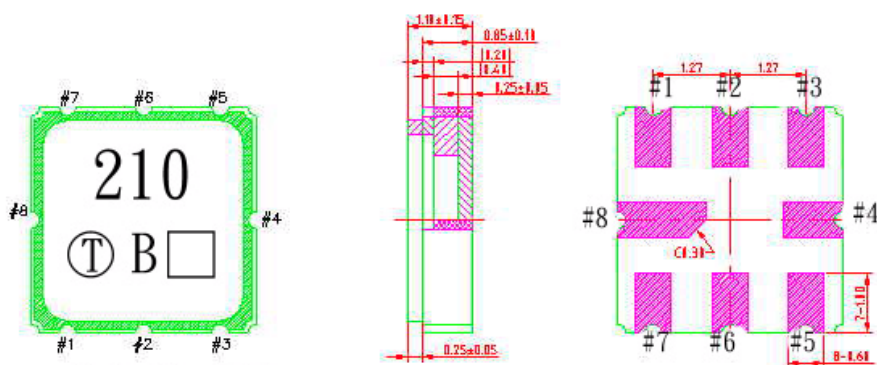
$L1=8nH$   $L2=27nH$   $L3=39nH$   $C1=18pF$

(2) 200 ohm balanced:



$L1=27nH$   $C1=C2=15pF$   $C3=C4=18pF$   $L2=33nH$

**E. OUTLINE DRAWING:**



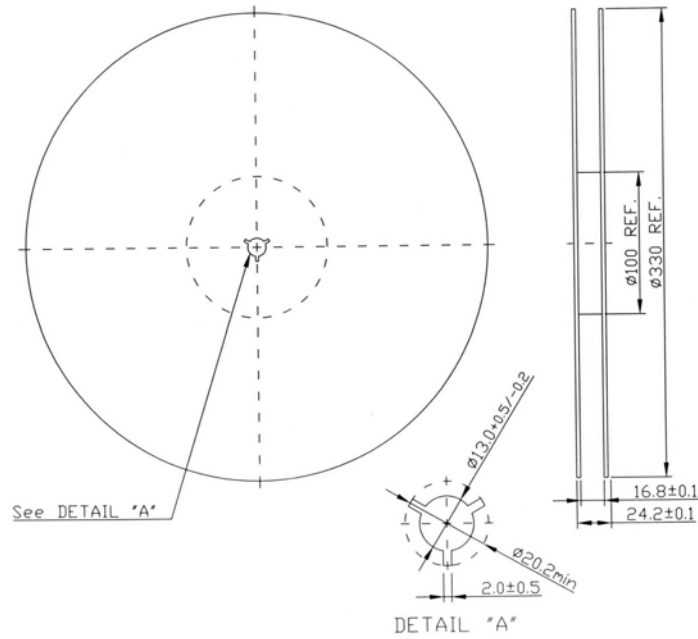
Pin5: Output RF  
 Pin1: Input RF  
 Pin6: Output Ground or Balance output  
 Pin2: Input Ground or Balance input  
 pin3, 4, 7, 8: To be Ground

□: Date code

Unit: mm

## F. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION

