



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: tstsales3@mail.taisaw.com Web: www.taisaw.com

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, Fc	MHz	-	374	-	
Insertion Loss, IL	dB	-	9	10	
Passband width, BW3	MHz	17	23.4	-	
Amplitude Ripple in $F_c \pm 7\text{MHz}$	dB	-	0.7	1	
Group delay ripple in $F_c \pm 7\text{MHz}$	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:

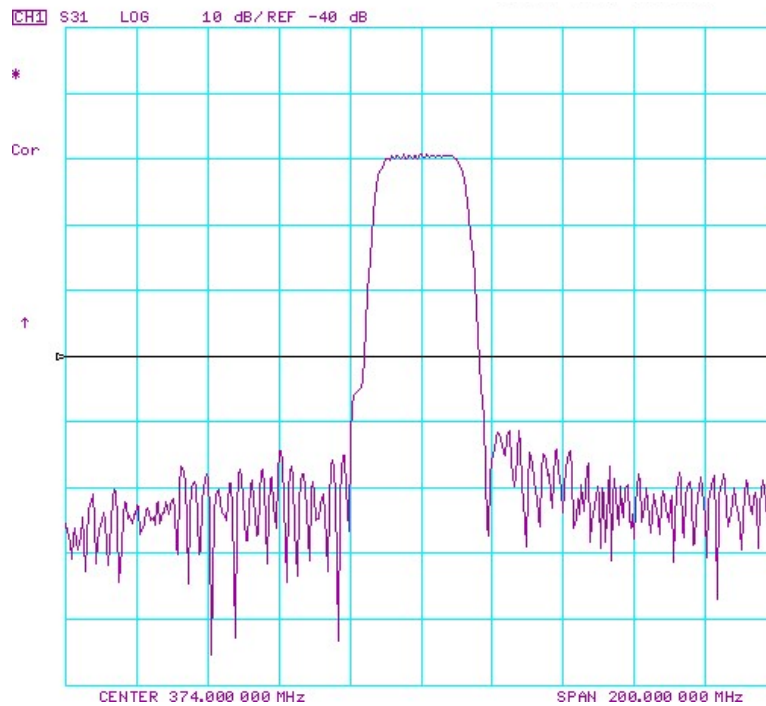


Fig-1 S21 Response Horizontal: 20MHz/Div
Vertical: 10dB/div REF. : -40dB

(2) Passband of Response:

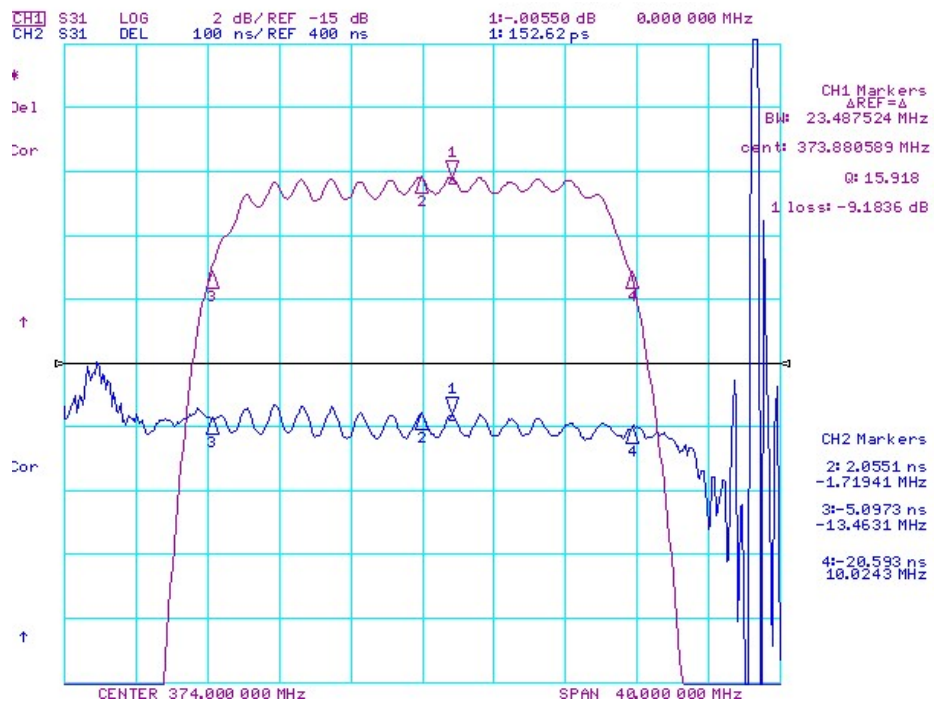
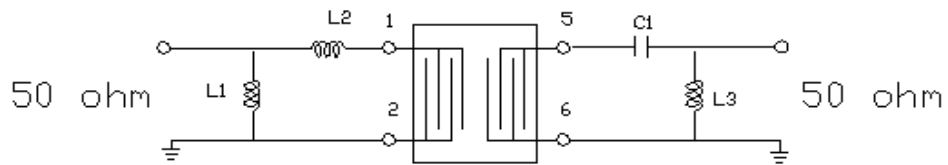


Fig-1 S21 Response Horizontal: 3MHz/Div
Vertical: 5dB/Div, 100nS

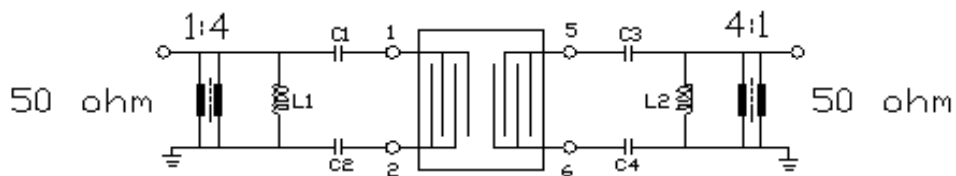
D. MEASUREMENT CIRCUIT:

(1) 50 ohm unbalanced:



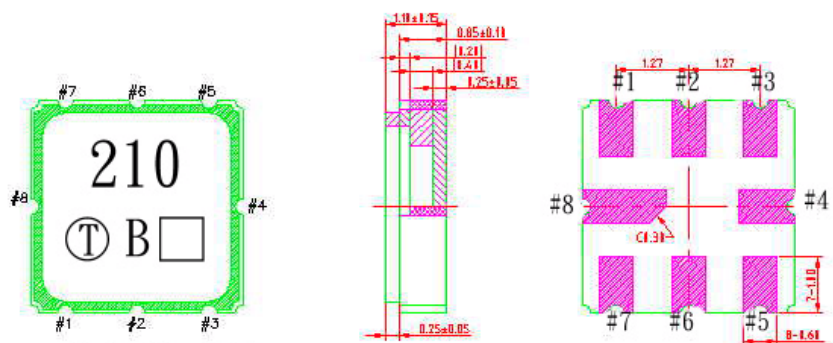
$L1=8\text{nH}$ $L2=27\text{nH}$ $L3=39\text{nH}$ $C1=18\text{pF}$

(2) 200 ohm balanced:



$L1=27\text{nH}$ $C1=C2=15\text{pF}$ $C3=C4=18\text{pF}$ $L2=33\text{nH}$

E. OUTLINE DRAWING:



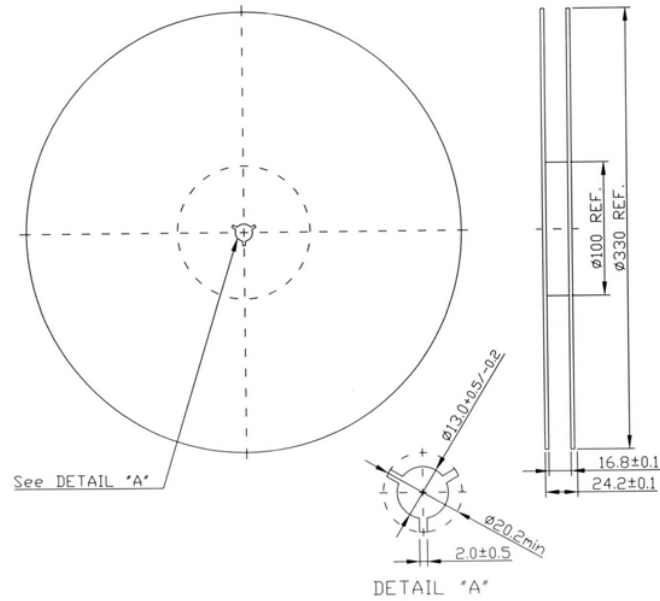
- Pin5: Output RF
- Pin1: Input RF
- Pin6: Output Ground or Balance output
- Pin2: Input Ground or Balance input
- pin3, 4, 7, 8: To be Ground

□: Date code

Unit: mm

F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

