



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 473.4MHz (SMD 5×7 mm)

TST Parts No.: TB0160A

Customer Parts No.: _____

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

Checked by: _____ Andy Lee

Approval by: _____ Francis Chen

Date: _____ 6,25 ,2004



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SAW Filter 473.4MHz (SMD 5×7 mm)

MODEL NO.: TB0160A

REV. NO.:4

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -40°C to 70°C
3. Storage Temperature: -40°C to 70°C

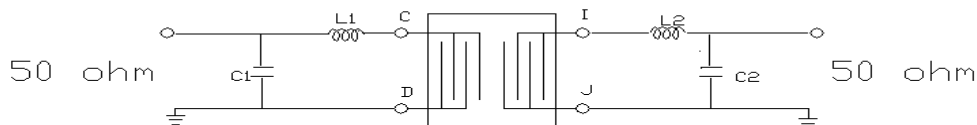
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	473.4	-	
Insertion Loss, IL	dB	-	9.7	13	
Passband width, BW3	MHz	-	28	-	
Amplitude Ripple (462MHz~483.75MHz)	dB	-	0.68	1	
Group delay ripple (462MHz~483.75MHz)	nS	-	45	70	
Triple transit suppression	dB	-	40	-	
Attenuation:(Reference level from Min IL)					
275 to 440 MHz	dB	40	55	-	
440 to 452.6 MHz	dB	45	47	-	
498 to 675 MHz	dB	40	41	-	

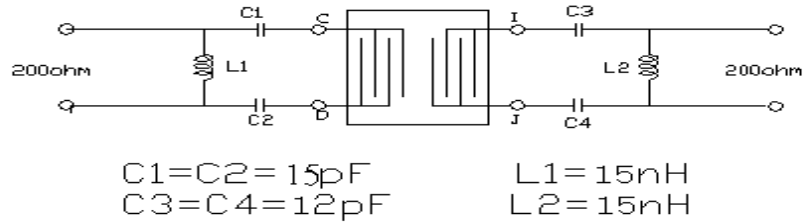
C. MEASUREMENT CIRCUIT:

1) For 50 ohm Unbalanced Input and Output



$$L1=5.6nH \quad L2=10nH \quad C1=10pF \quad C2=12pF$$

2) For 200 ohm Balanced Input and Output



D. FREQUENCY CHARACTERISTICS:

(1) wide band of Response:

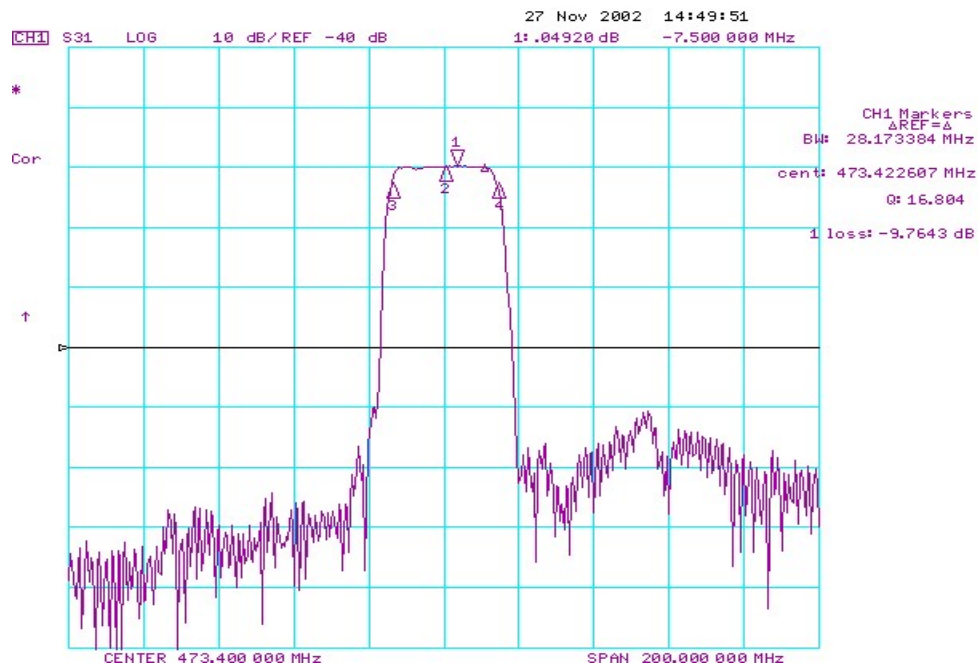


Fig-1 S21 Response Horizontal: 20MHz/Div
Vertical: 10dB/Div

(2) Passband of Response:

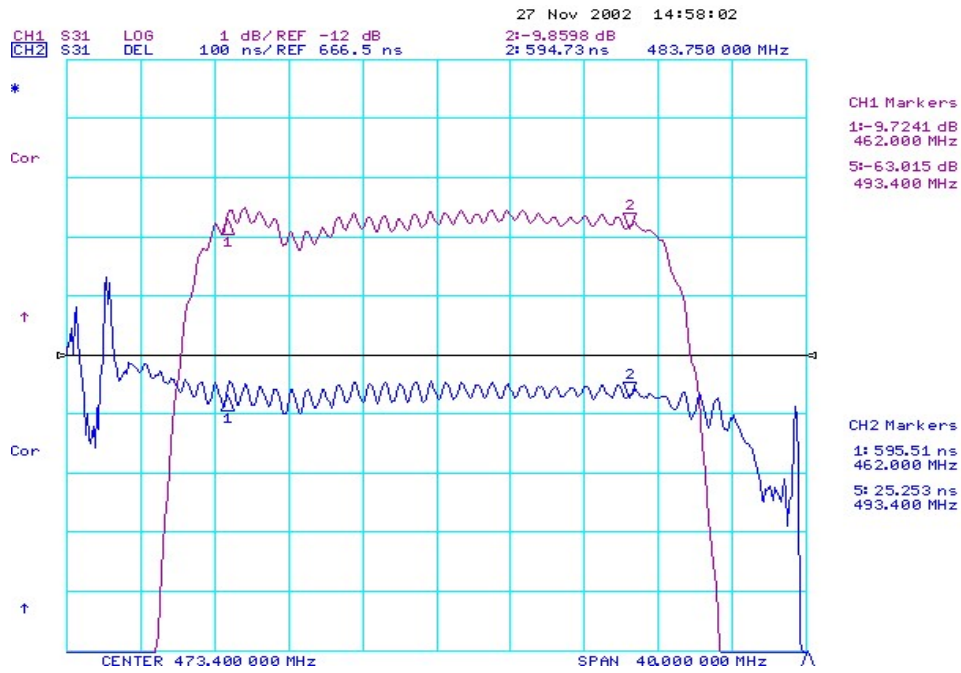
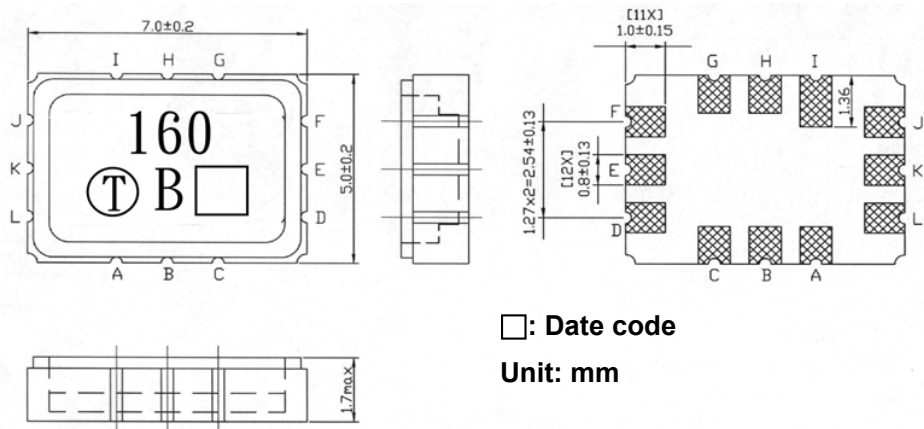


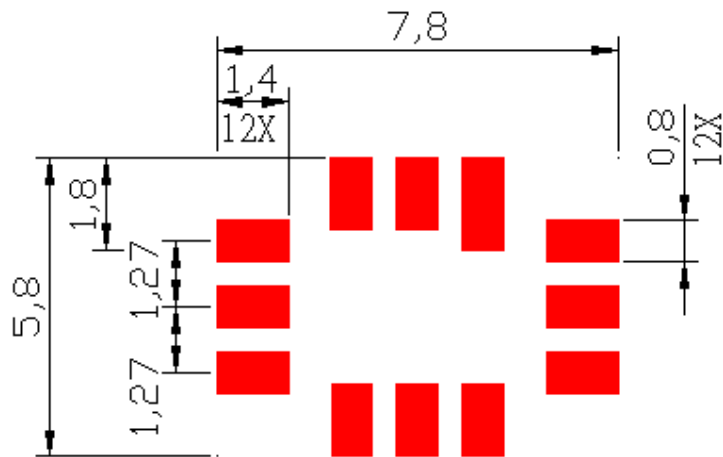
Fig-2 Group Delay and Ripple, Horizontal:4MHz/Div
Vertical: 1 dB/Div Vertical: 100nS/Div

F. OUTLINE DRAWING:



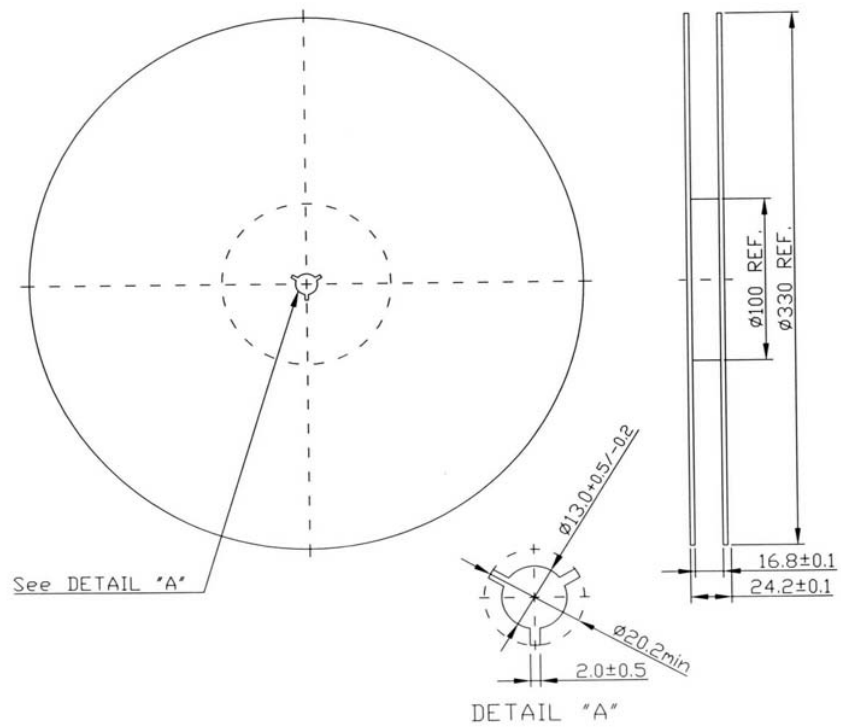
- Pin C : Unbalanced Input or Balanced Input
- Pin D : Unbalanced Input Ground or Balanced Input
- Pin I : Unbalanced Output or Balanced Output
- Pin J : Unbalanced Output Ground or Balanced Output
- Pin A, B, E, F, G, H, K, L : To be Ground

F.PCB FOOTPRINT



G. PACKING:

1. REEL DIMENSION



2.TAPE DIMENSION

