



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 325 MHz(SMD 7.0X5.0mm)

TST Parts No.:TB0457A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee

Approval by: _____ Francis Chen

Date: _____ 2008/01/28



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IF SAW Filter 325 MHz SMD 7X5mm

MODEL NO.: TB0457A

Rev No.1

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 (C)
2. Storage Temperature: -40 (C ~ +85 (C)
3. Input Power Level: 10 dBm

RoHS Compliant
Lead free
Lead-free soldering

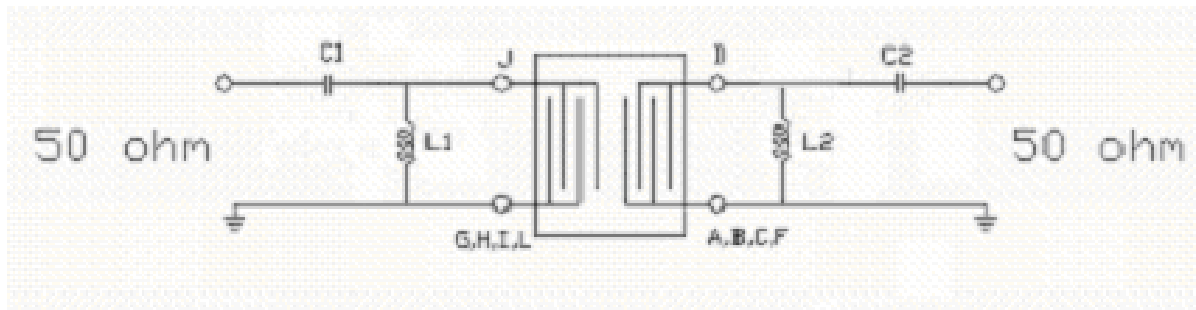
B. Characteristics :

1. Ambient Temperature: 25 (C)
2. Optimal Source Impedance(Balanced): 200 ohm
3. Optimal Load Impedance(Balanced): 200 ohm

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency FC MHz	-	325	-	-
Minimum Insertion Loss dB	-	18.6	20	-
1dB Bandwidth MHz	6.3	6.4	-	-
3dB Bandwidth MHz	-	6.7	6.9	-
Passband Ripple (Fc±3MHz) dB	-	0.9	1.5	-
Amplitude Ripple at any 26.875kHz adjacent segment within 6 MHz dB	-0.1	±0.07	0.1	-
Amplitude Ripple at any 24.6875kHz adjacent segment within 6 MHz dB	-0.1	±0.06	0.1	
Phase Linearity at any 26.875kHz adjacent segment within 6 MHz Deg.	-1.5	±1.0	1.5	
Phase Linearity at any 24.6875kHz adjacent segment within 6 MHz Deg.	-1.5	±1.0	1.5	
Attenuation:(Reference level from minimum insertion loss)				dB
1) Fc±3.5MHz dB	-	2.5	-	-
2) Fc±4MHz dB	10	13.5	-	-
3) Fc±5MHz dB	33	42	-	-
4) 288MHz ~ 320 MHz dB	34	39	-	-
5) 330MHz ~ 362 MHz dB	36	40	-	-
Temp Coefficient ppm/° C ²	-0.036			

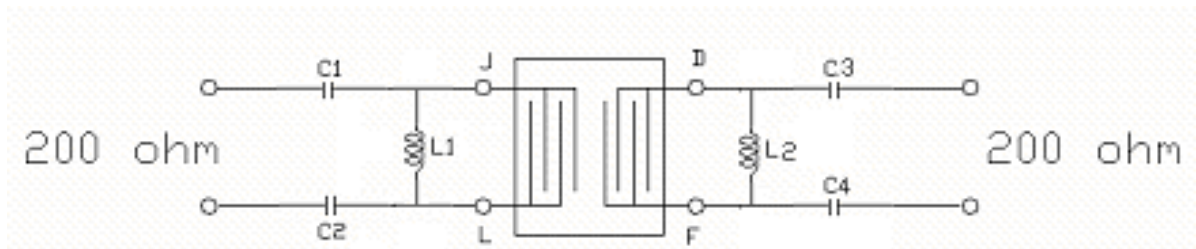
C. Measurement Circuit:

(1) Single end 50 ohm to Single end 50 ohm



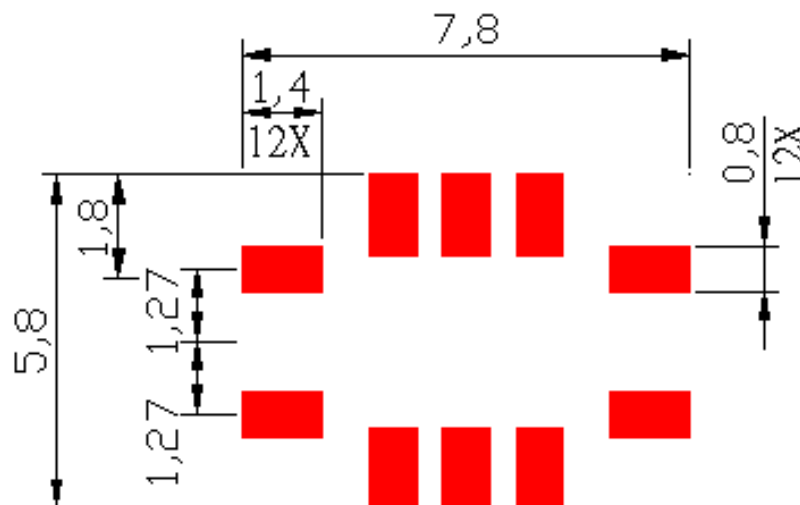
$L1=27\text{nH}$ $C1=2\text{pF}$ $L2=28\text{nH}$ $C2=1.8\text{pF}$

(2) Balanced 200 ohm to Balanced 200 ohm



$C1=C2=2.7\text{nH}$ $L1=33\text{pF}$ $C3=C4=2\text{nH}$ $L2=36\text{pF}$

D. PCB FOOTPRINT:



E. Frequency Characteristics :

(1) S21 Response

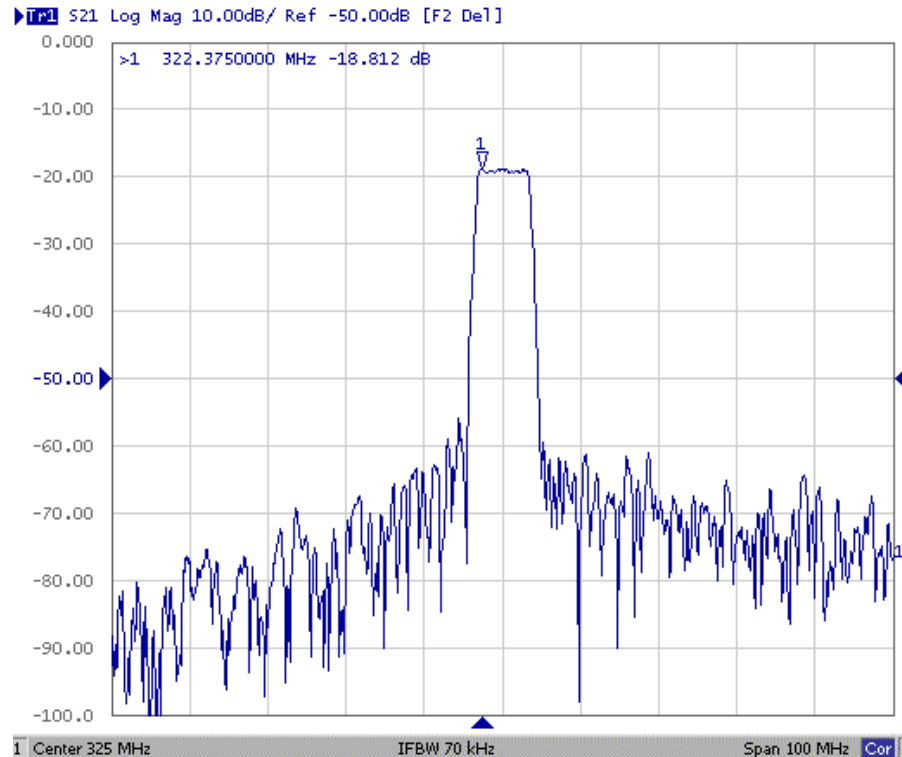


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

(2) Passband Ripple & Group Delay ripple

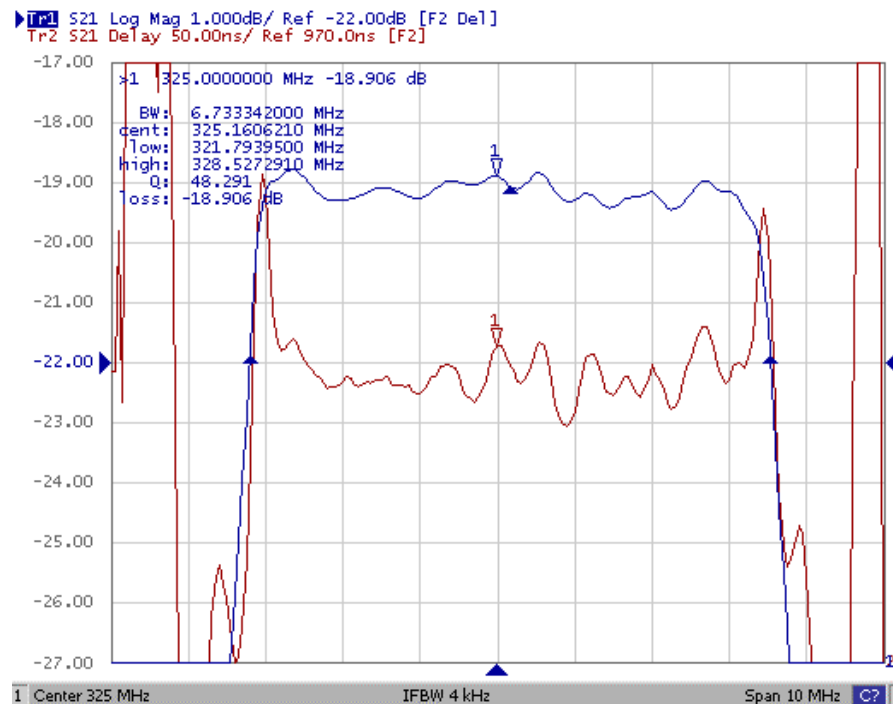
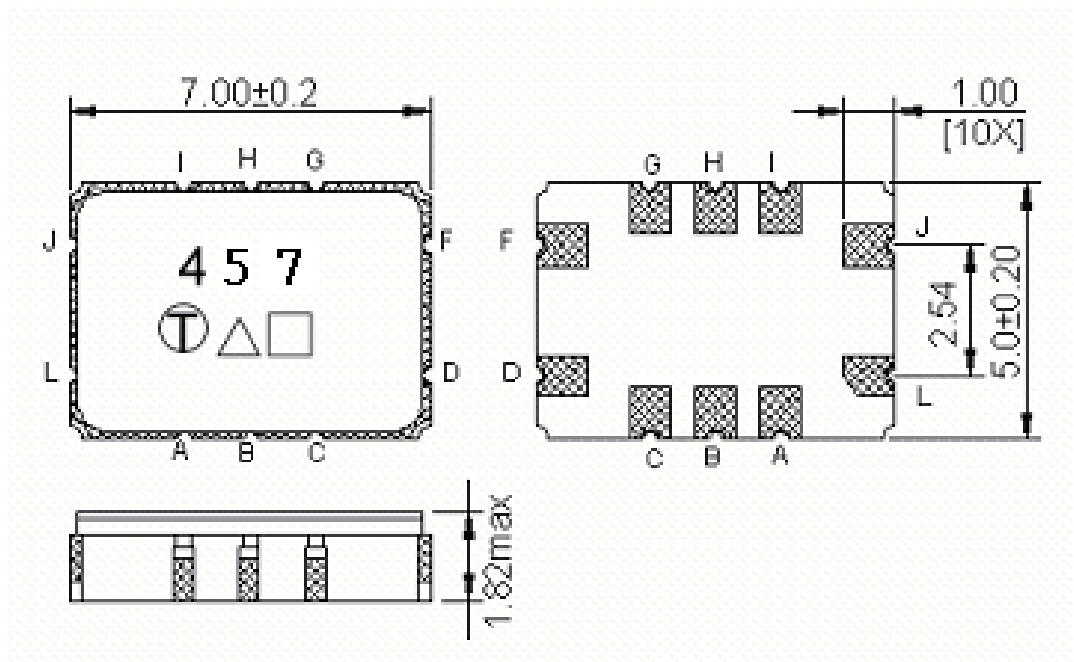


Fig2. Horizontal: 1MHz/Div Vertical: 1dB/Div
1MHz/Div Vertical: 50nS/Div

F. Outline Drawing:



Pin J,L : Balanced Input

Pin F,D : Balanced Output

Pin A,B ,C ,I,H,G : To be Ground

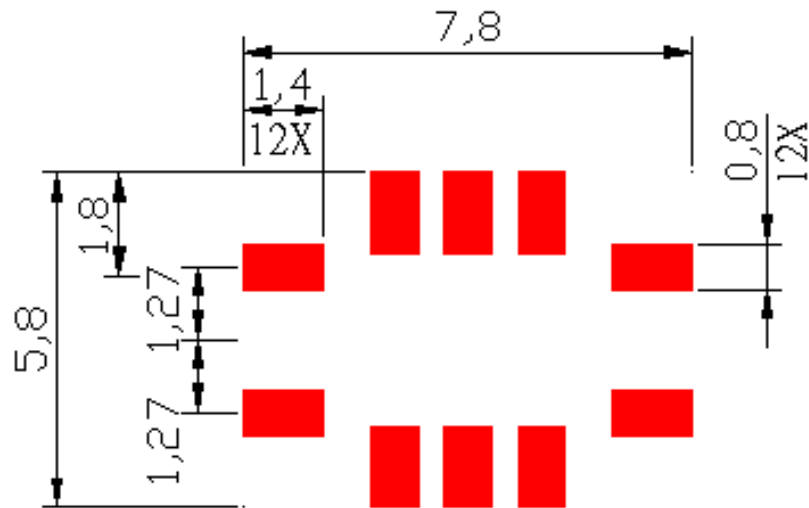
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

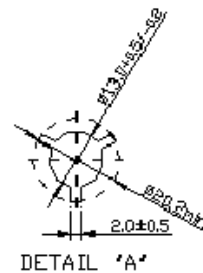
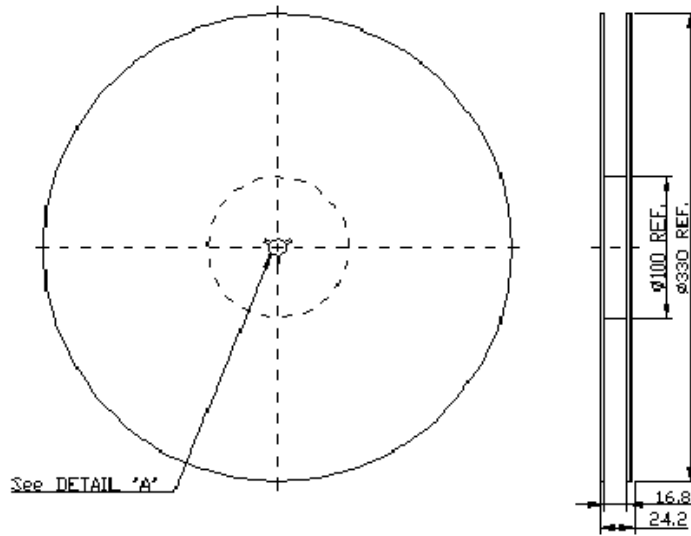
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. Footprint:



H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

