



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 350MHz SMD 5.0x5.0mm

TST Parts No.:TB0610A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2007/12/28



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SAW Filter 350 MHz SMD 5.0mmX5.0mm

MODEL NO.: TB0610A

Rev. No. V1

A. MAXIMUM RATING:

1. Operating Temperature: -25°C to +70°C
2. Storage Temperature: -40°C to +85°C
3. Maximum Input Power : 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °

Item		Min.	Typical	Max.
Center frequency Fc	MHz	-	350	-
Insertion loss at Fc	dB	-	11.8	13.0
Bandwidth at -1.0dB	MHz	69.0	74.0	-
Bandwidth at -3.0dB	MHz	71.0	78.0	-
Amplitude Ripple (Fc ± 34.5 MHz)	dB	-	0.8	1.0
Group Delay Ripple (Fc ± 34.5 MHz)	nS	-	30	100
Absolute Group delay at Fc	nS	-	320	-
Attenuation (Reference level from minimum Insertion loss)				
130MHz ~ 240MHz	dB	45	60	-
460MHz ~ 605MHz	dB	42	48	-
Temp Coefficient	ppm/ C	-	-93	-

C. FREQUENCY CHARACTERISTICS :

1.S21 Response

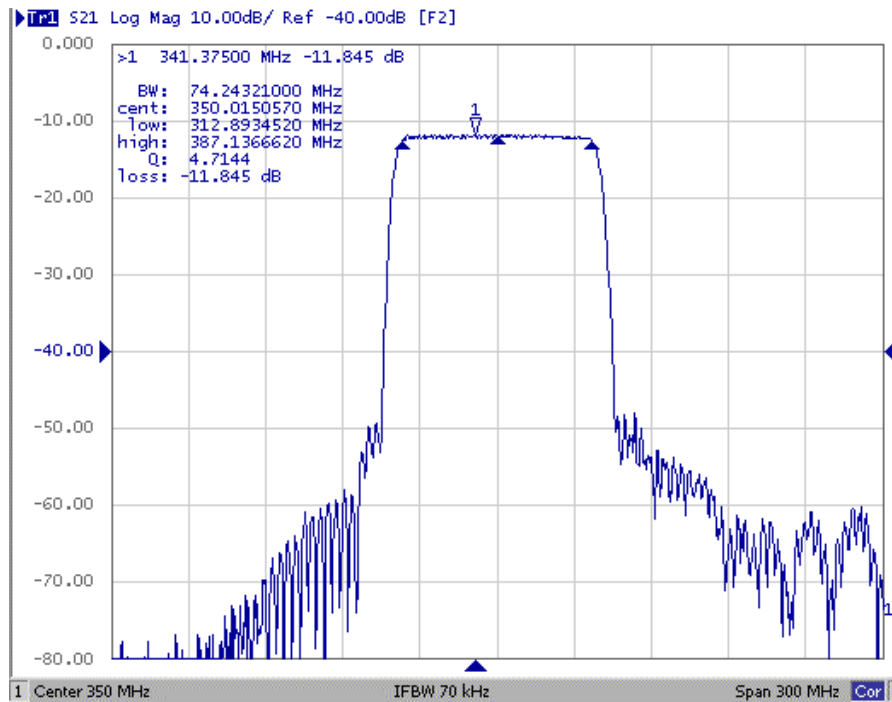


Fig1. Horizontal: 30MHz/Div Vertical: 10dB/Div

2. Passband Ripple

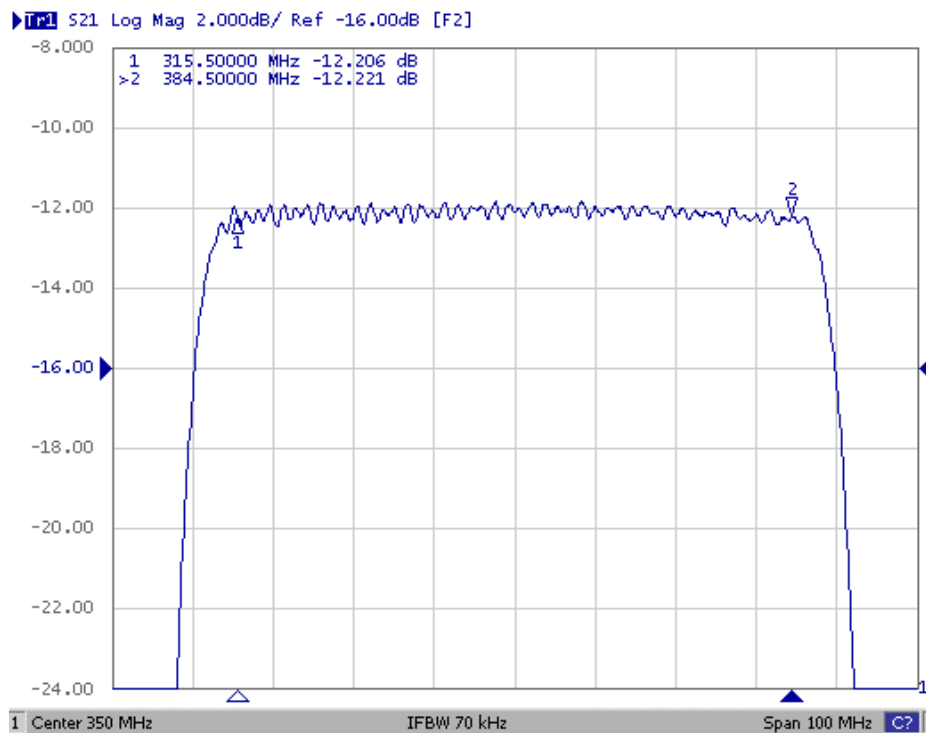


Fig2. Horizontal: 10MHz/Div Vertical: 2dB/Div

3. Group Delay Ripple

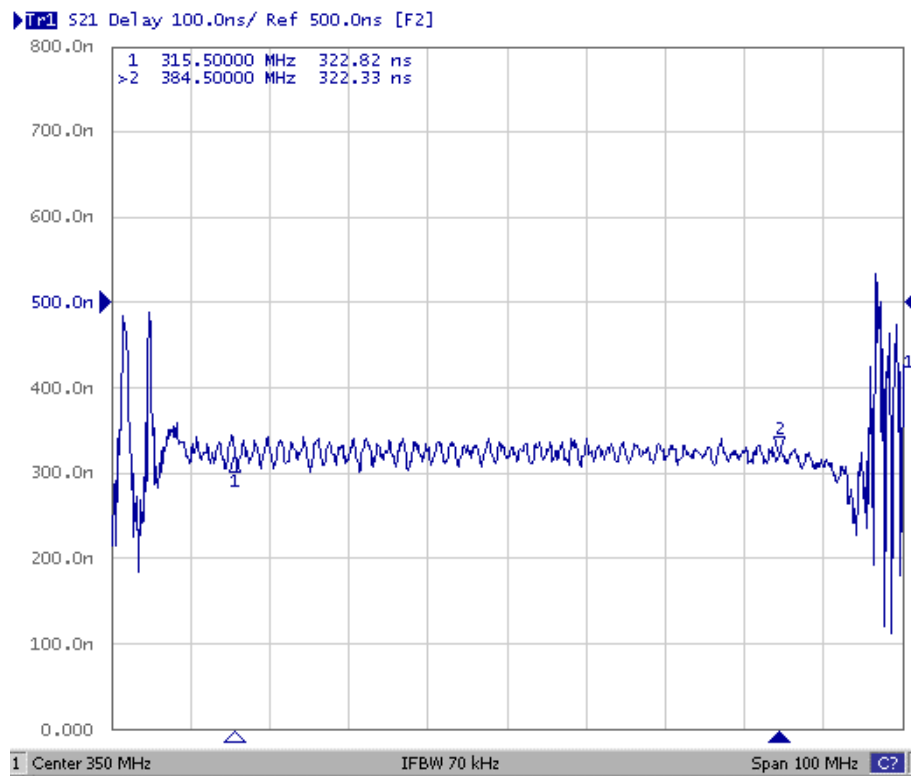


Fig3. Horizontal: 10MHz/Div Vertical: 100nS/Div

4. Wide Band Response

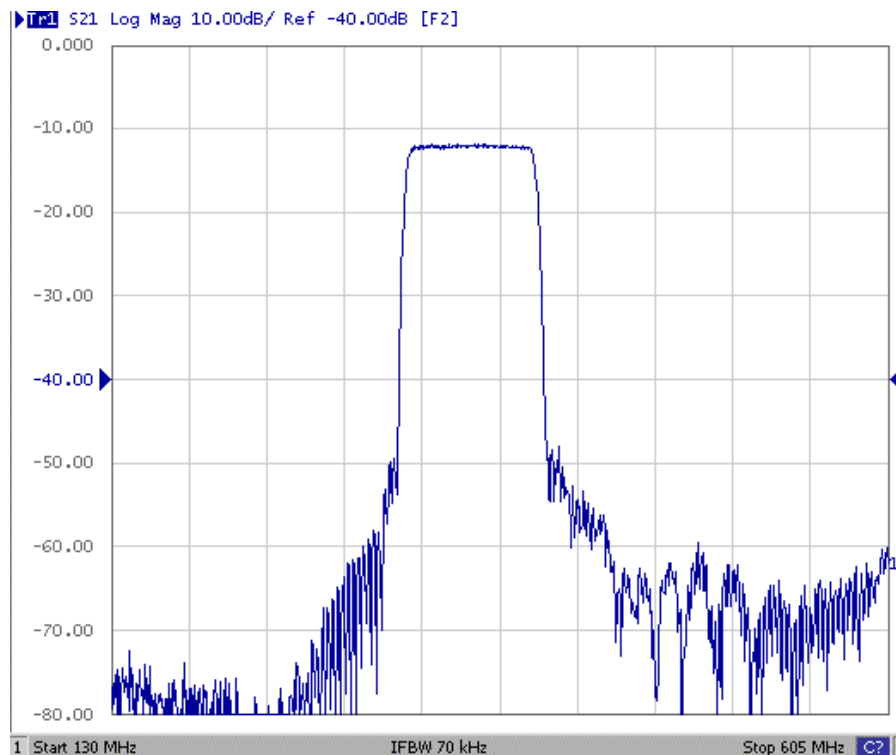
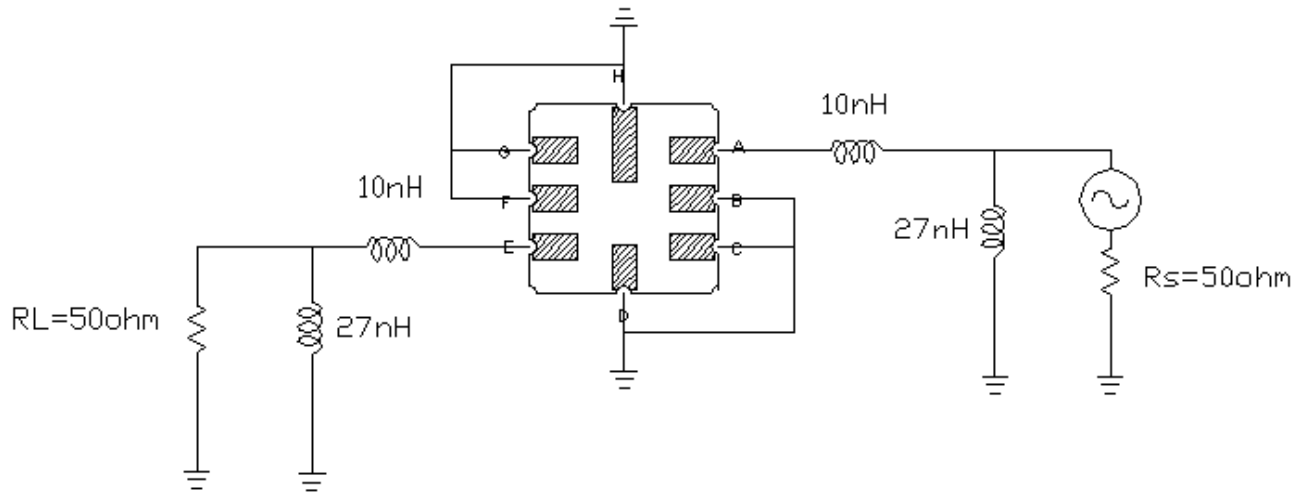


Fig4. Horizontal: 130~605MHz Vertical: 10dB/Div

D. MEASUREMENT CIRCUIT

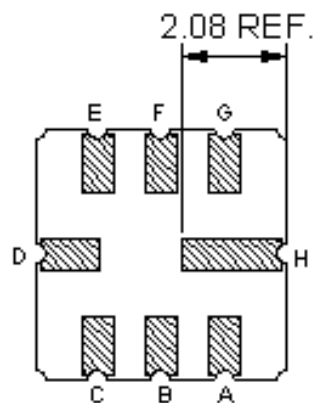
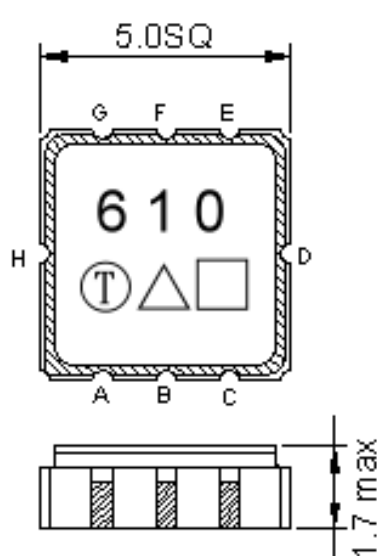
1. Single ended input 50 ohm to Single ended Output 50 ohm

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Note: The matching structure will change according to different test fixture.

E. OUTLINE DRAWING:



Pin A : RF Input

Pin E : RF Output

Pin B,C,D,F,G,H : Ground

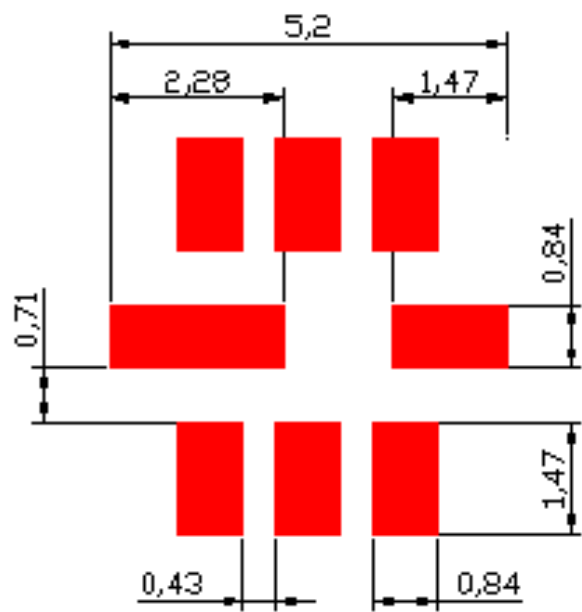
Unit: mm

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

△ : Product / Year Code

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

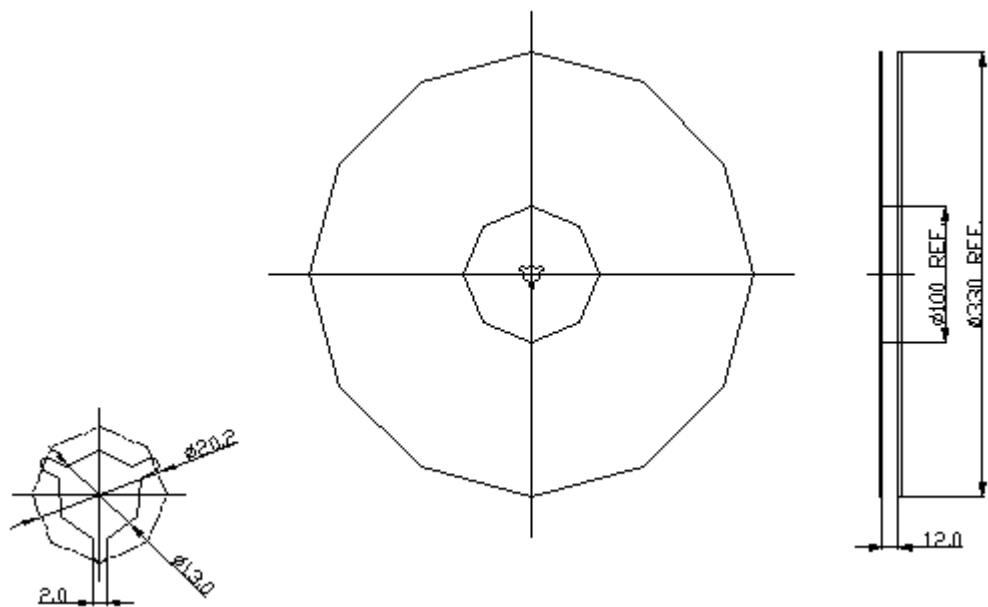
F. PCB Footprint



Unit: mm

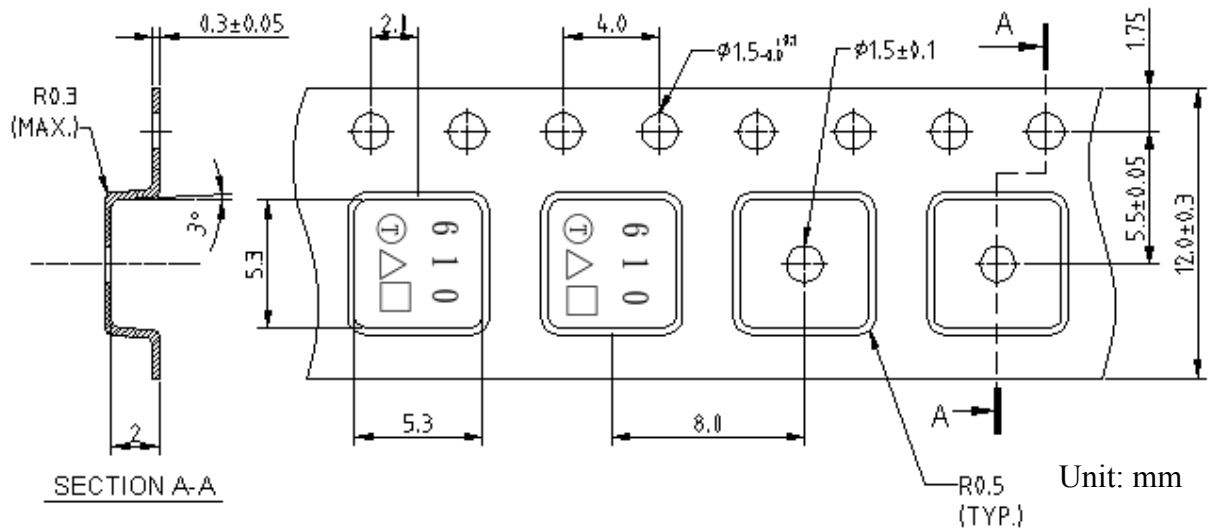
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE_:

