



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 310 MHz (SMD 5.0mmX5.0mm)

TST Parts No.:TB0468A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ Andy Lee

Approval by:_____ Francis Chen

Date:_____ 2007/01/05



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IF SAW Filter 310MHz SMD 5x5mm

MODEL NO.: TB0468A

REV.No.1

A. MAXIMUM RATING:

1. Operating Temperature: -10 °C ~ 60 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

1. Ambient Temperature: 23 °C

Characteristics			Value			Note
			Min.	Typ.	Max.	
Center frequency	F_c	MHz	-	310	-	-
Insertion loss	I.L.	dB	-	10.5	14	-
1 dB Bandwidth		MHz	10	11.5	-	-
3 dB Bandwidth		MHz	-	14.3	-	-
Amplitude Ripple (305~315MHz)		dB	-	0.6	1	-
Phase linearity (305~315MHz)	(p-p) deg		-	3	-	-
Group Delay Ripple ($F_c \pm 5$ MHz)		nsec	-	20	100	-
Attenuation:(Reference level from minimum insertion loss)						dB
1)	10-205 MHz	dB	45	48	-	-
2)	205-285 MHz	dB	40	43	-	-
3)	335-340 MHz	dB	38	42	-	-
4)	340-360 MHz	dB	35	44	-	-
5)	360-365 MHz	dB	40	44	-	-
6)	365-390 MHz	dB	35	43	-	-
7)	390-485 MHz	dB	39	43	-	-
Source Impedance		Ohm	-	50	-	-
Load Impedance		Ohm	-	50	-	-
Temperature Coefficient		ppm/°C	-	-75	-	-
Substrate Material			-	128 LiNbO3	-	-

C. Frequency Characteristics :

1. S21 Response

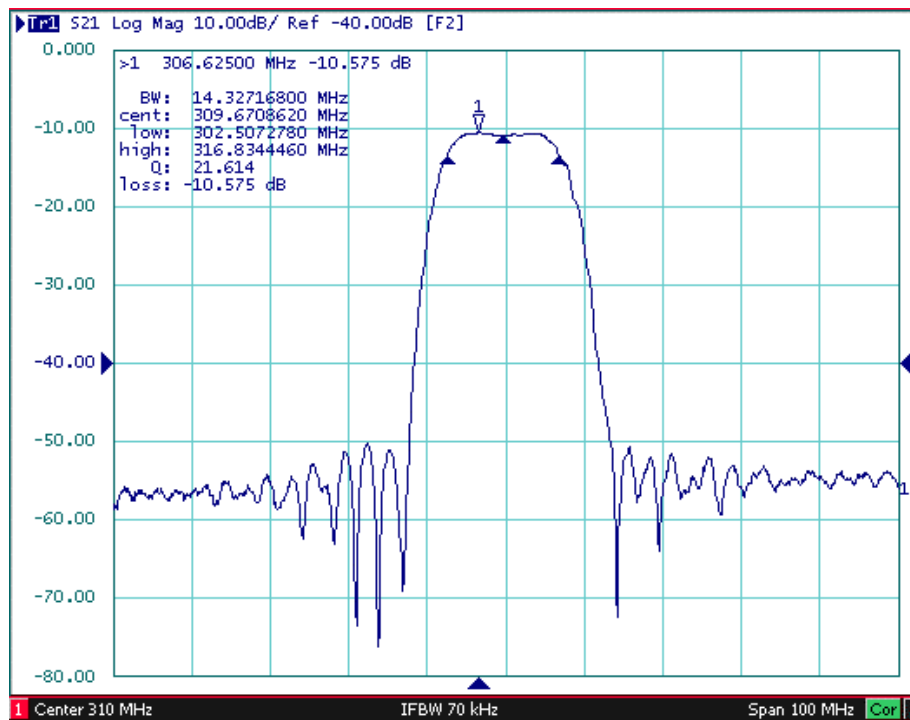


Fig.1 Horizontal : 10MHz/Div Vertical: 10dB/Div

2. Passband Ripple

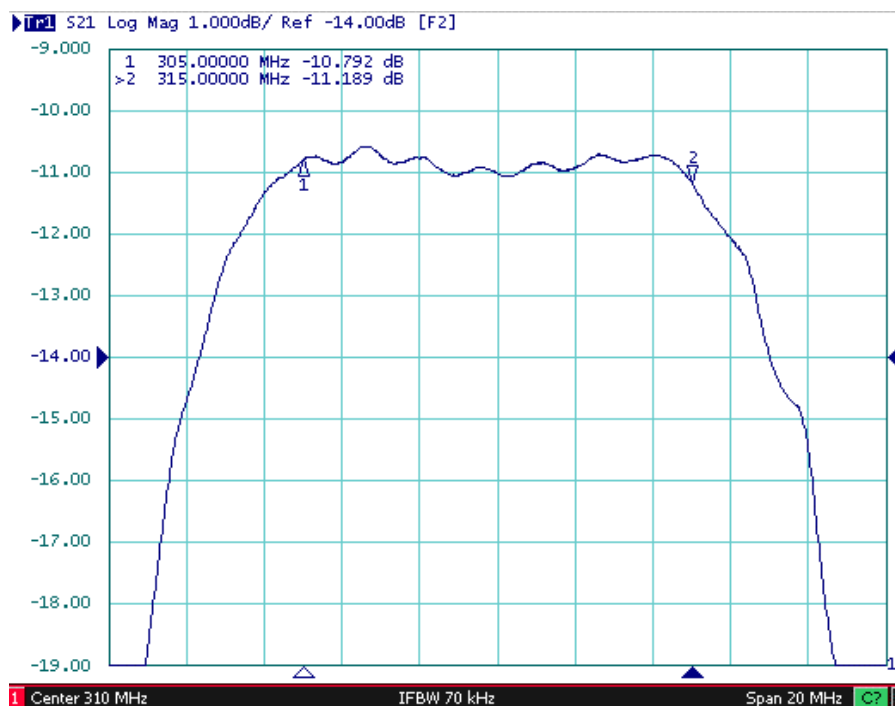


Fig.2 Horizontal : 2MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

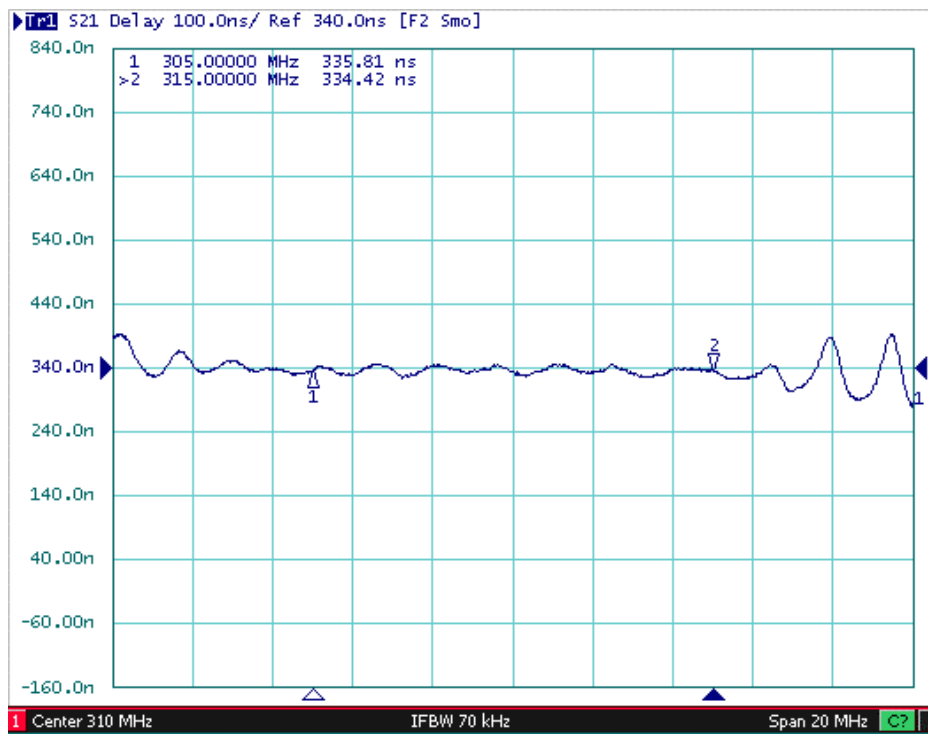


Fig.3 Horizontal : 2MHz/Div Vertical: 100nS/Div

4. Phase linearity

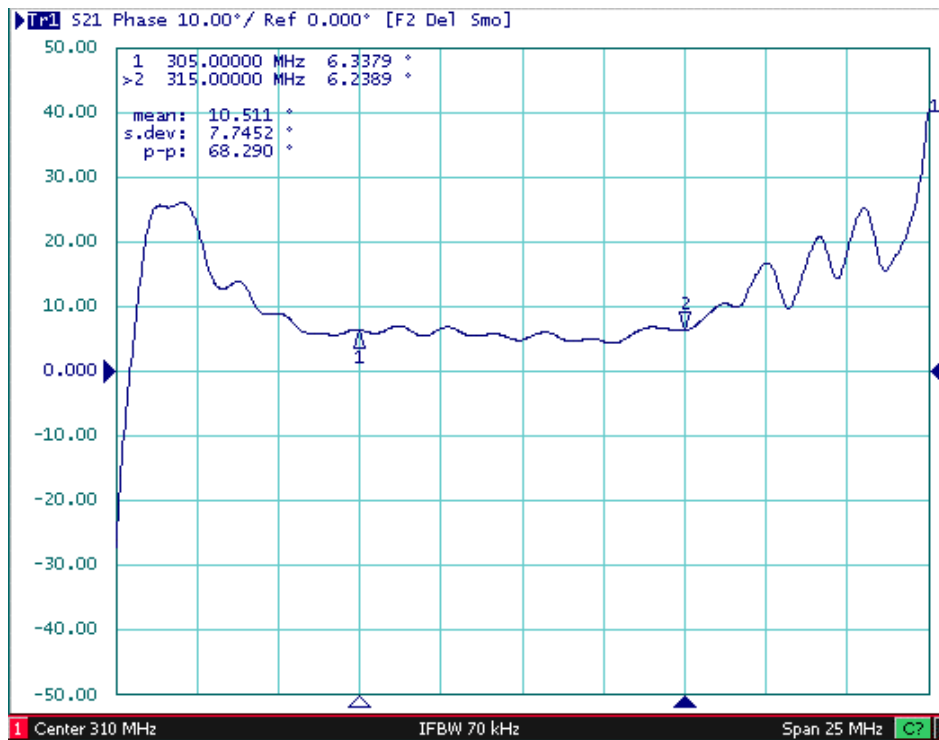
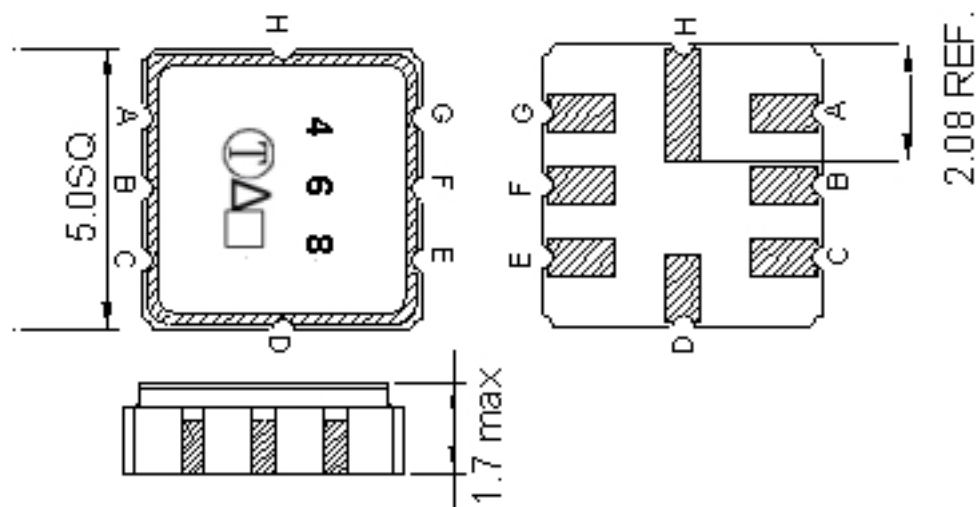


Fig.4 Horizontal : 2.5MHz/Div Vertical: 10 deg/Div

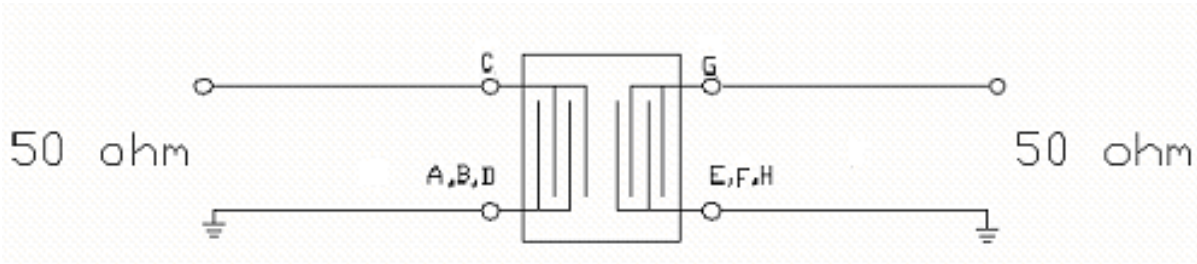
D. Outline Drawing:



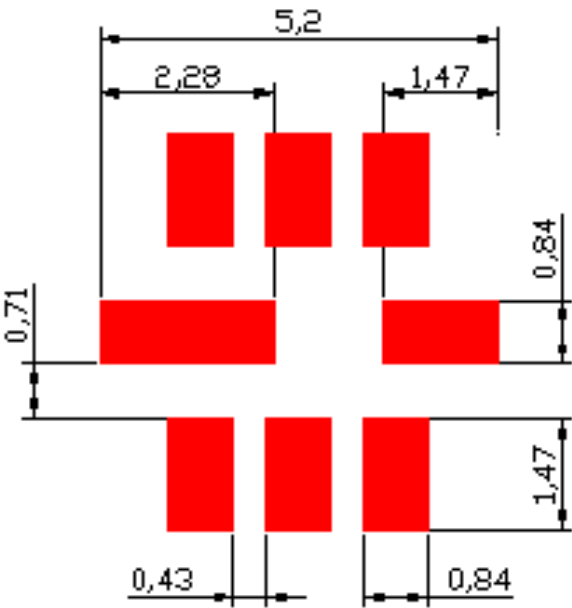
Pin B, C : Balanced Input
 Pin G, F : Balanced Output
 Pin A,C,D,E,H : To be Ground
 : Week Code (Follow the table from planner each year)
 △ : Product / Year Code
 Unit : mm

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

E. TEST FIXTURE :

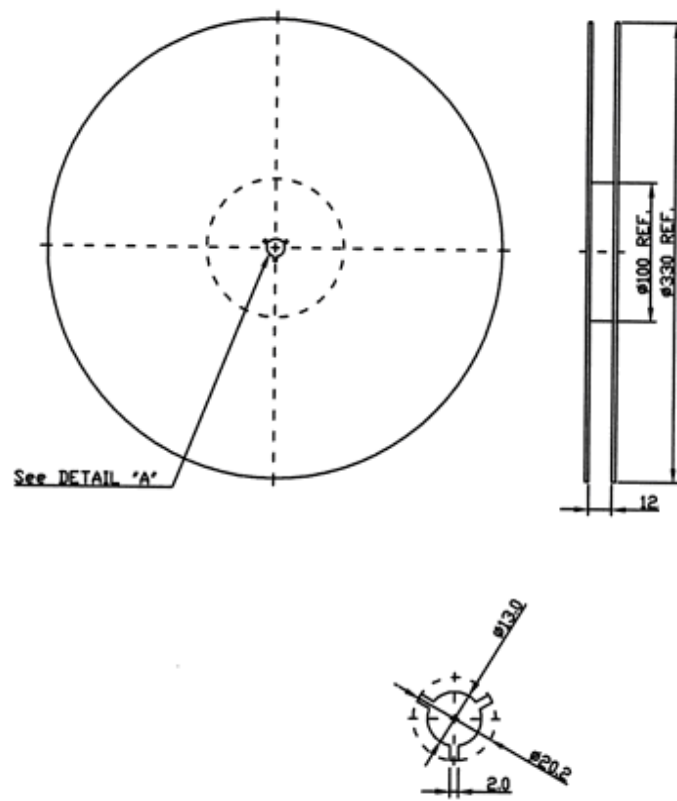


F. PCB FOOTPRINT



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

