



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet for Product Specification

Issued Date:

Product Name: 325MHz IF SAW Filter (BW=9 MHz)

TST Parts No.: TB0560A

Customer Parts No.: \_\_\_\_\_

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

Checked by: \_\_\_\_\_ Andy Yu

Approval by: \_\_\_\_\_ Francis Chen

Date: \_\_\_\_\_ 12/19/2007



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SAW Filter 325MHz (SMD 5.0×7.0 mm)

MODEL NO.: TB0560A

Rev. NO. 1

## A. MAXIMUM RATINGS:

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

RoHS Compliant  
Lead free  
Lead-free soldering

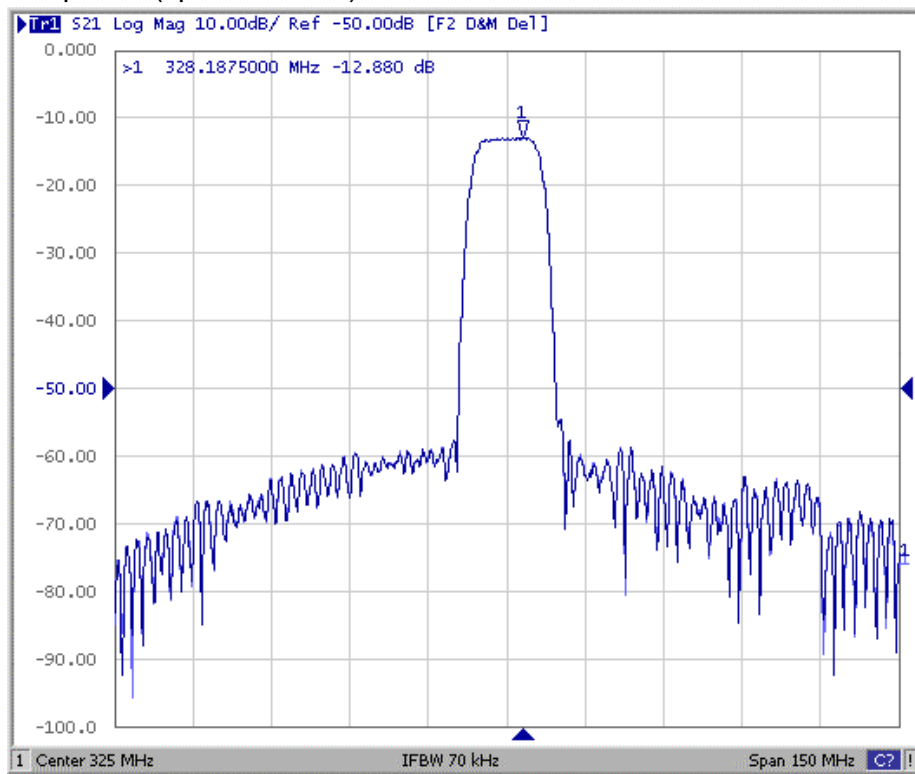
## B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

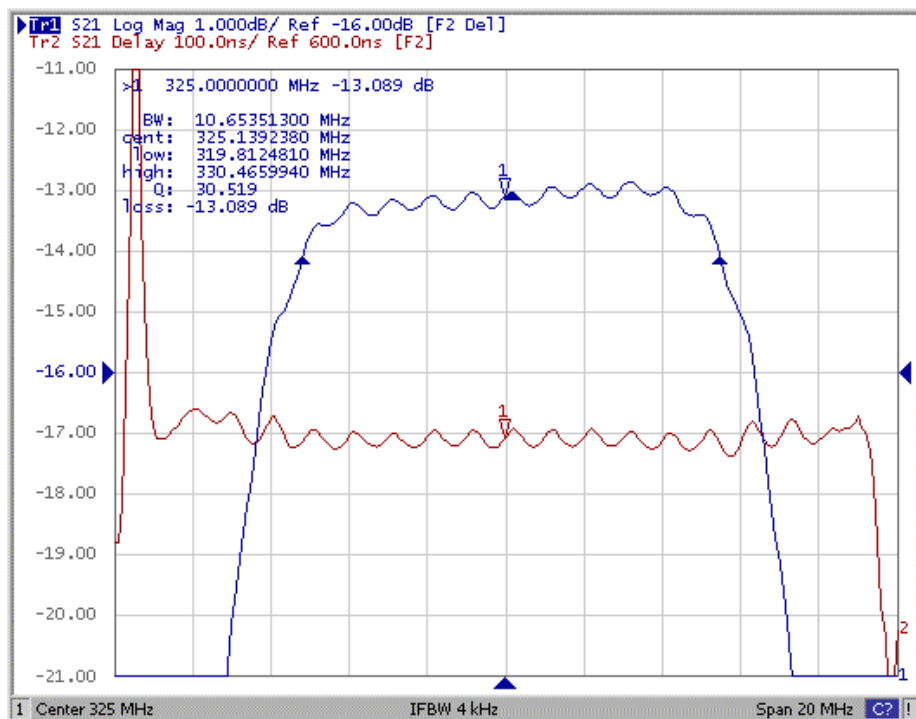
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency $F_c$ MHz	-	325	-	-
Minimum Insertion loss I.L. dB	-	12.8	14	-
1 dB Bandwidth MHz	9.0	10.6	-	-
3 dB Bandwidth MHz	10.0	12.4	-	-
40 dB Bandwidth MHz	-	18.8	35.5	-
Return Loss dB	10	12		
Amplitude Ripple (320.75~329.25MHz) dB P-P	-	0.6	1.0	-
Phase Linearity (320.75~329.25MHz) deg P-P	-	5.0	-	-
Group Delay Ripple (320.75~329.25MHz) ns P-P	-	35	75	-
Attenuation (Reference level from Minimum insertion loss)				
(1) 10 ~ 220MHz dB	50	64	-	-
(2) 220 ~ 300MHz dB	40	47	-	-
(3) 350 ~ 355MHz dB	40	50	-	-
(4) 355 ~ 375MHz dB	35	51	-	-
(5) 375 ~ 380MHz dB	40	51	-	-
(6) 380 ~ 405MHz dB	35	52	-	-
(7) 405 ~ 500MHz dB	40	53	-	-

### C. Frequency Characteristics :

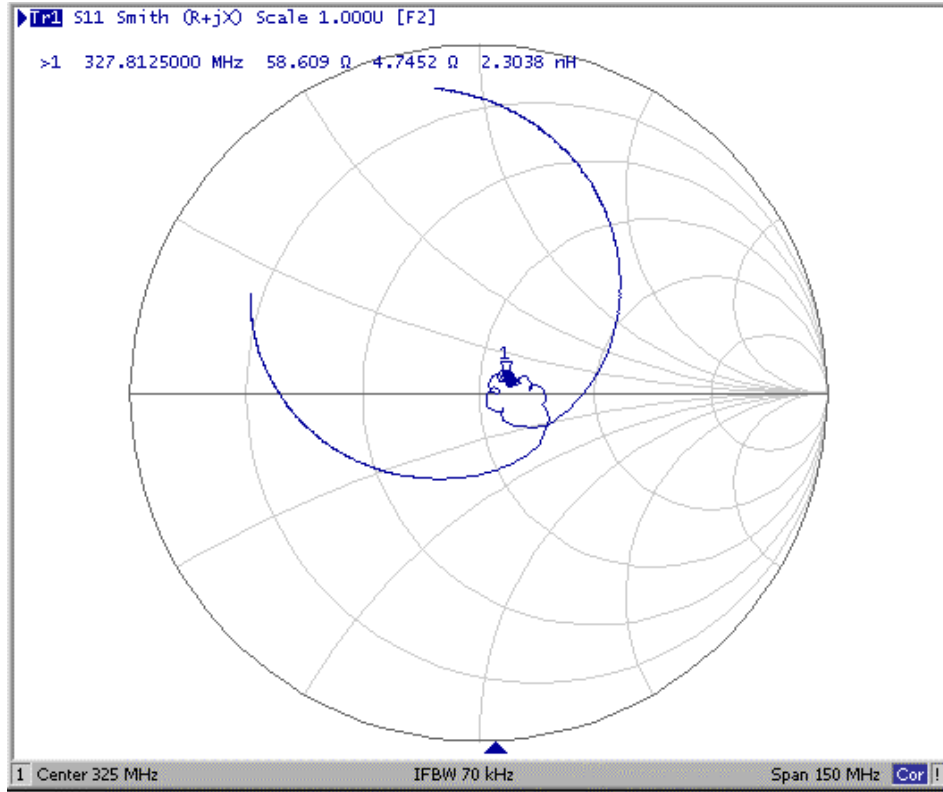
#### 1. S21 Response:(span 150MHz)



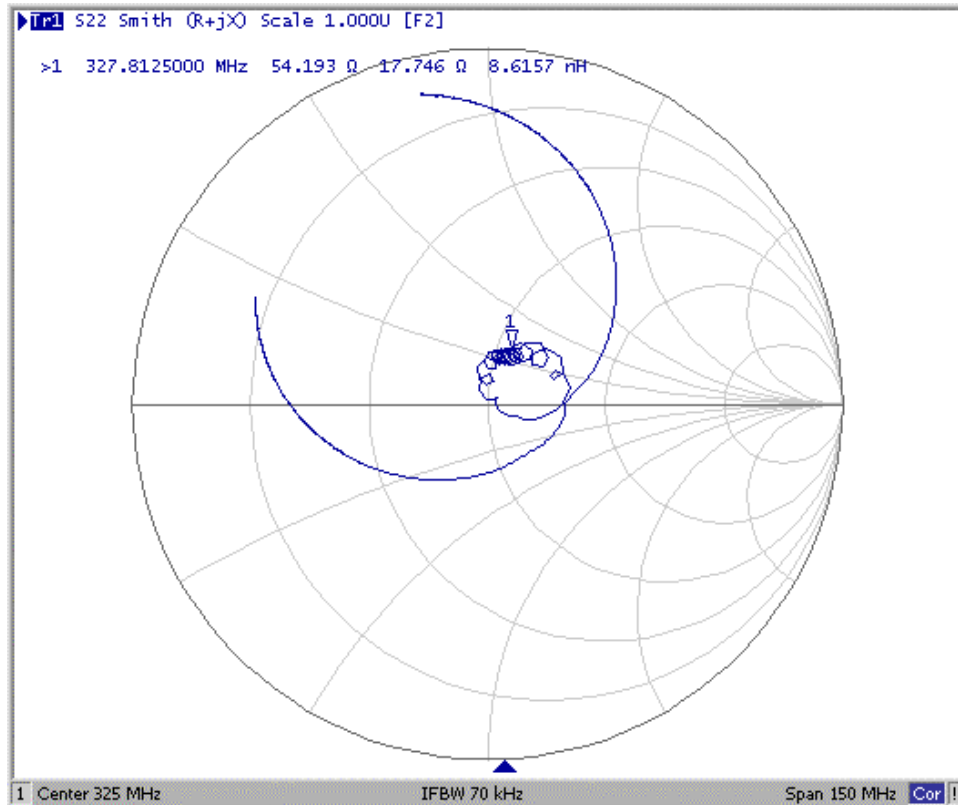
#### 2. Passband Response: (span 20MHz)



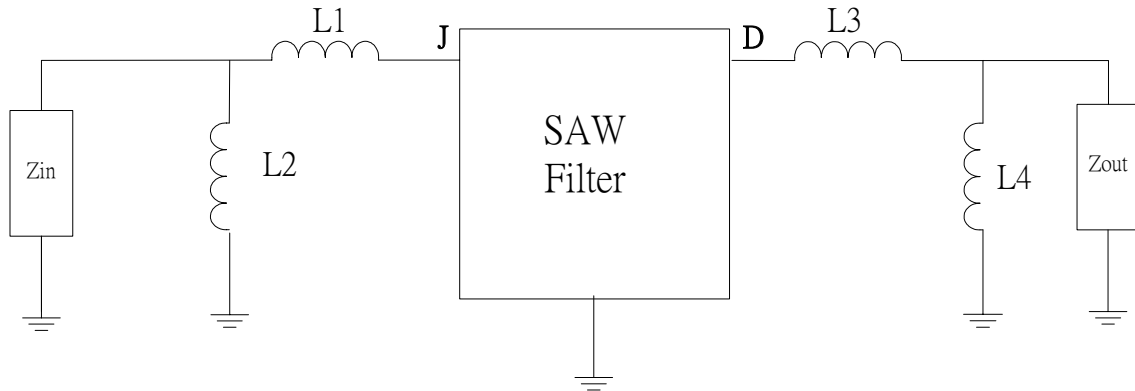
### 3. S11 Smith-Chart: (span 150MHz)



### 4. S22 Smith-Chart: (span 150MHz)



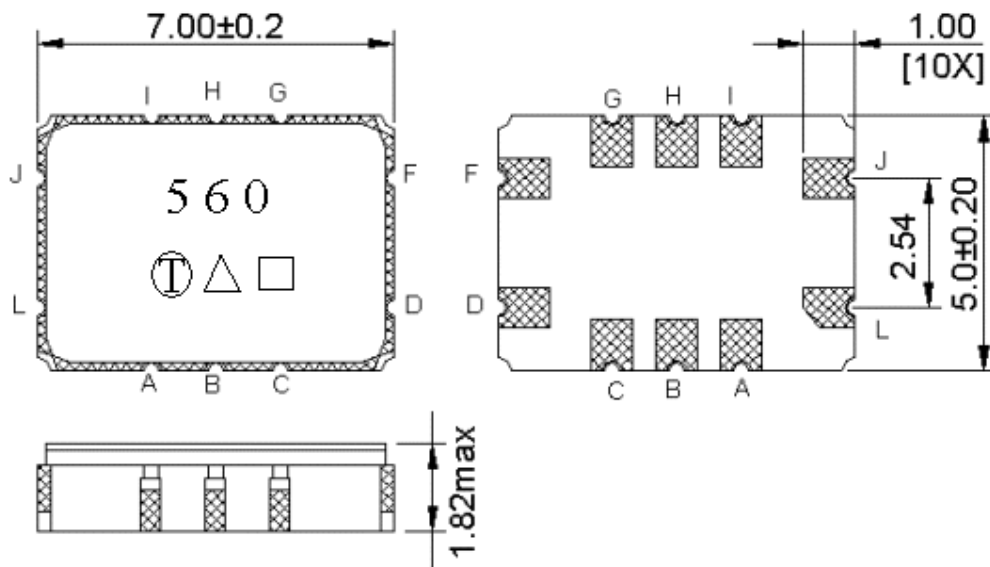
**D. TEST CIRCUIT:**



$Z_{in} = Z_{out} = 50 \text{ ohm}$

$L1=10\text{nH}, L2=12\text{nH}, L3=10\text{nH}, L4=15\text{nH}$

**E. OUTLINE DRAWING:**



Pin J: RF input

Pin D: RF output

Pin K, L, A, B, C, E, F, I, H, G: 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. Recommended Reflow Profile:

