



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

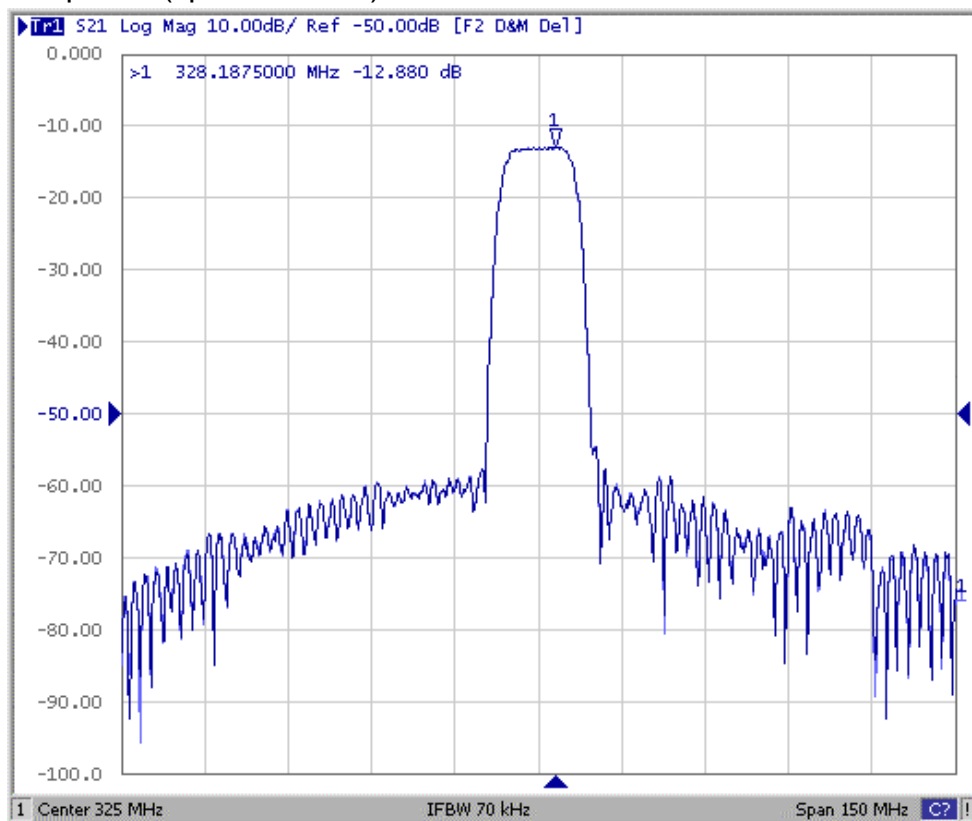
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

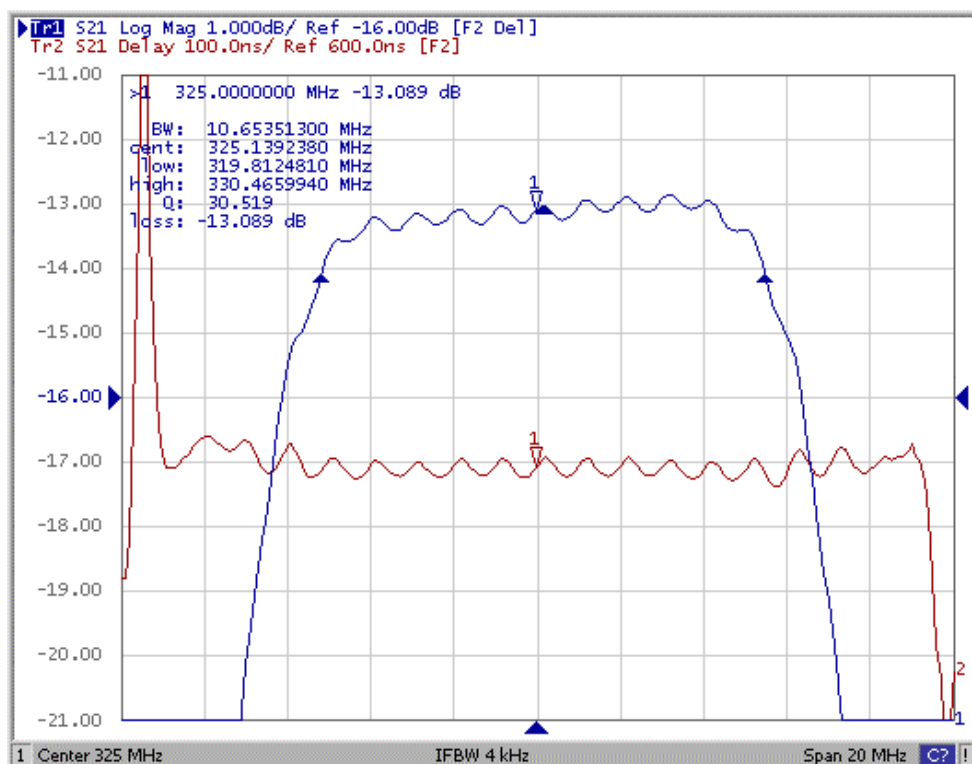
Characteristics		Value			Note
		Min.	Typ.	Max.	
Center frequency	F _C MHz	-	325	-	-
Minimum Insertion loss	I.L. dB	-	12.8	14	-
1 dB Bandwidth	MHz	9.0	10.6	-	-
3 dB Bandwidth	MHz	10.0	12.4	-	-
40 dB Bandwidth	MHz	-	18.8	35.5	-
Return Loss	dB	10	12		
Amplitude Ripple (320.75~329.25MHz)	dB P-P	-	0.6	1.0	-
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 :

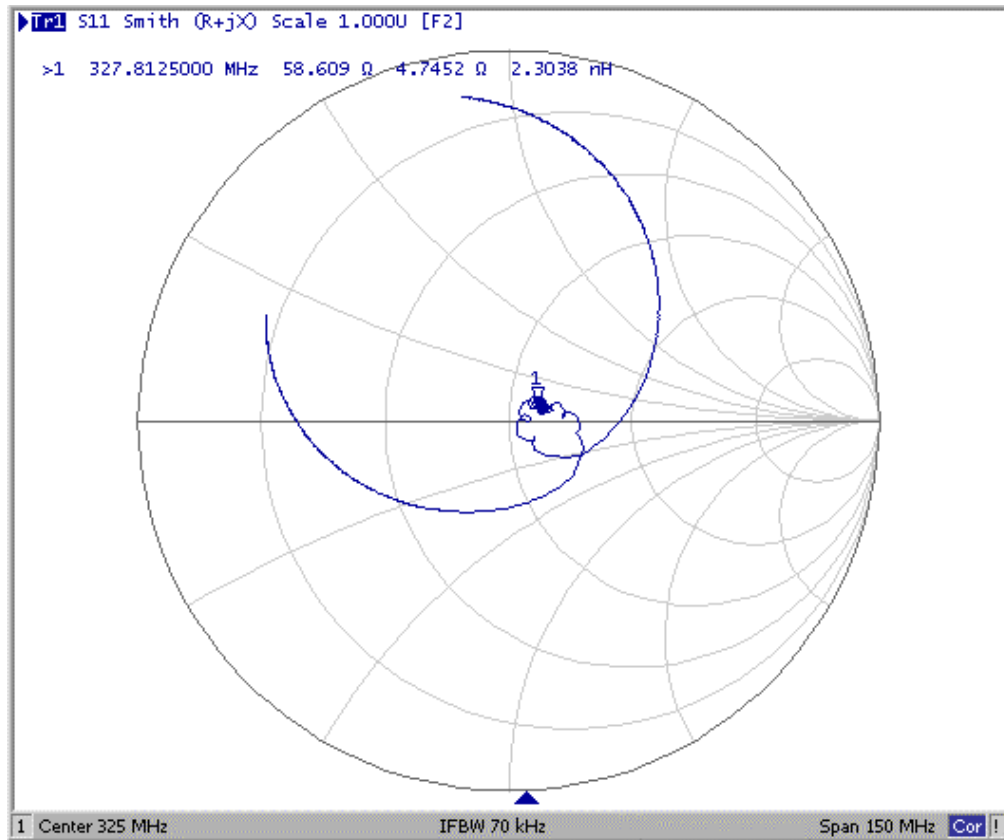
1. S21 Response:(span 150MHz)



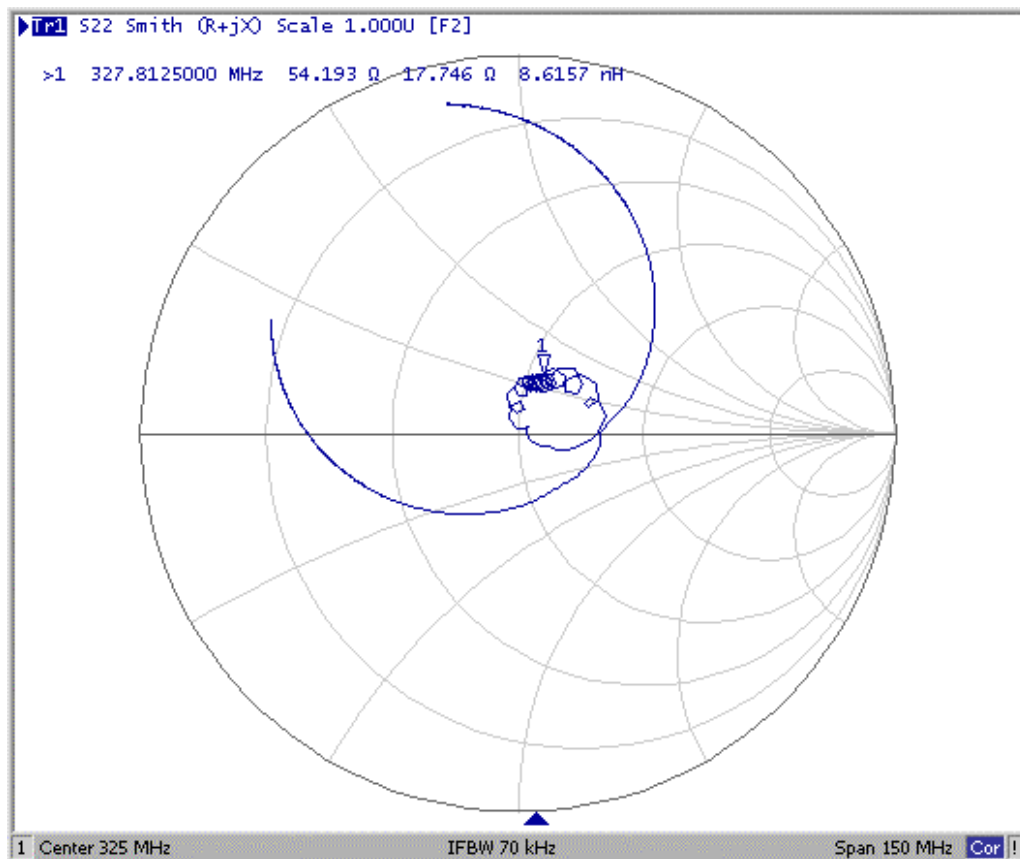
2. Passband Response: (span 20MHz)



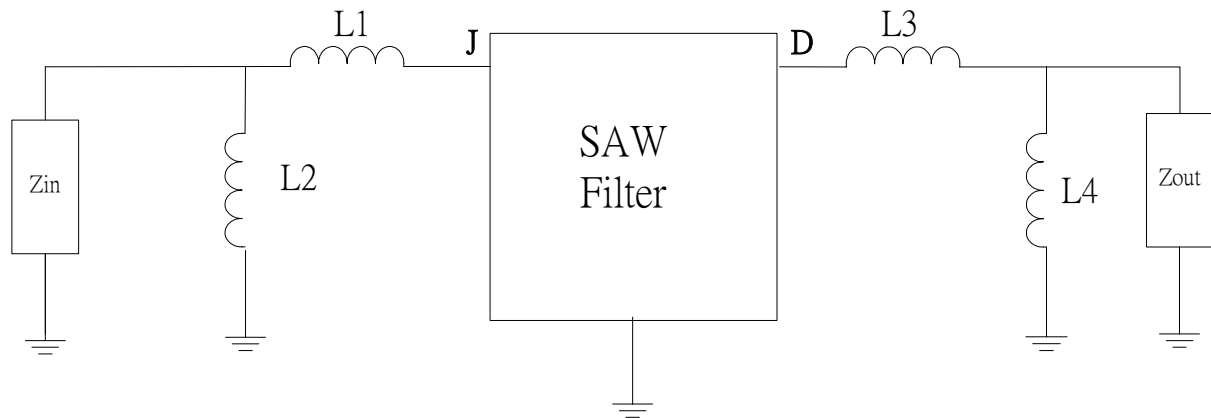
3. S11 Smith-Chart: (span 150MHz)



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



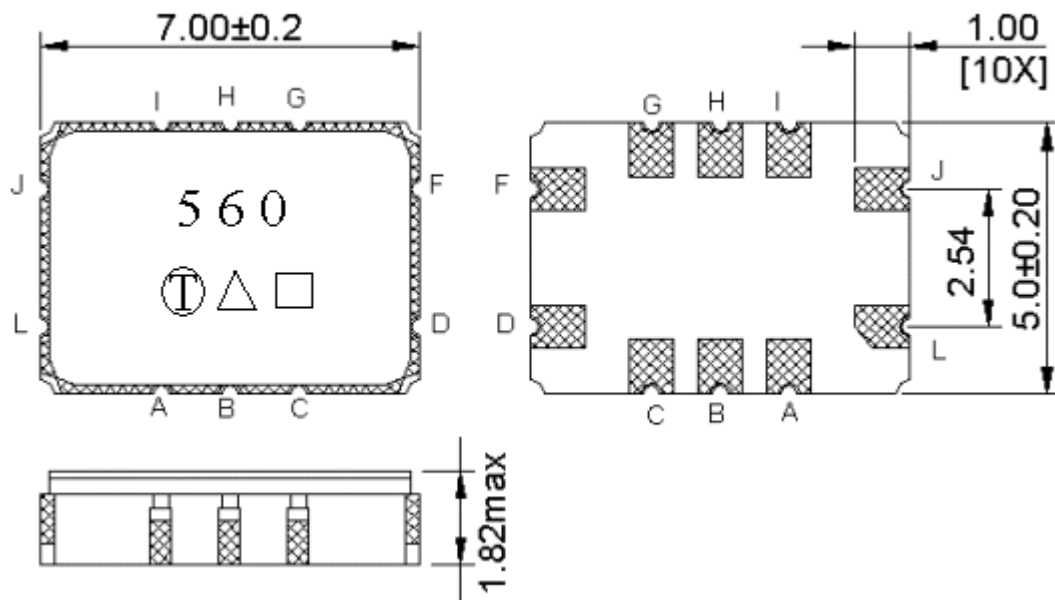
D. TEST CIRCUIT:



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

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

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

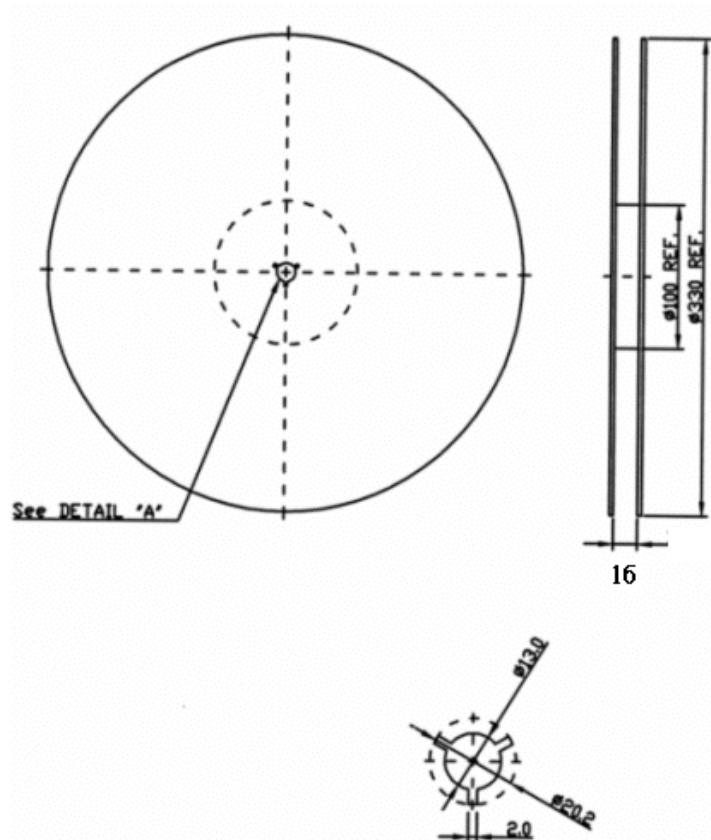
△ : Product / Year Code

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

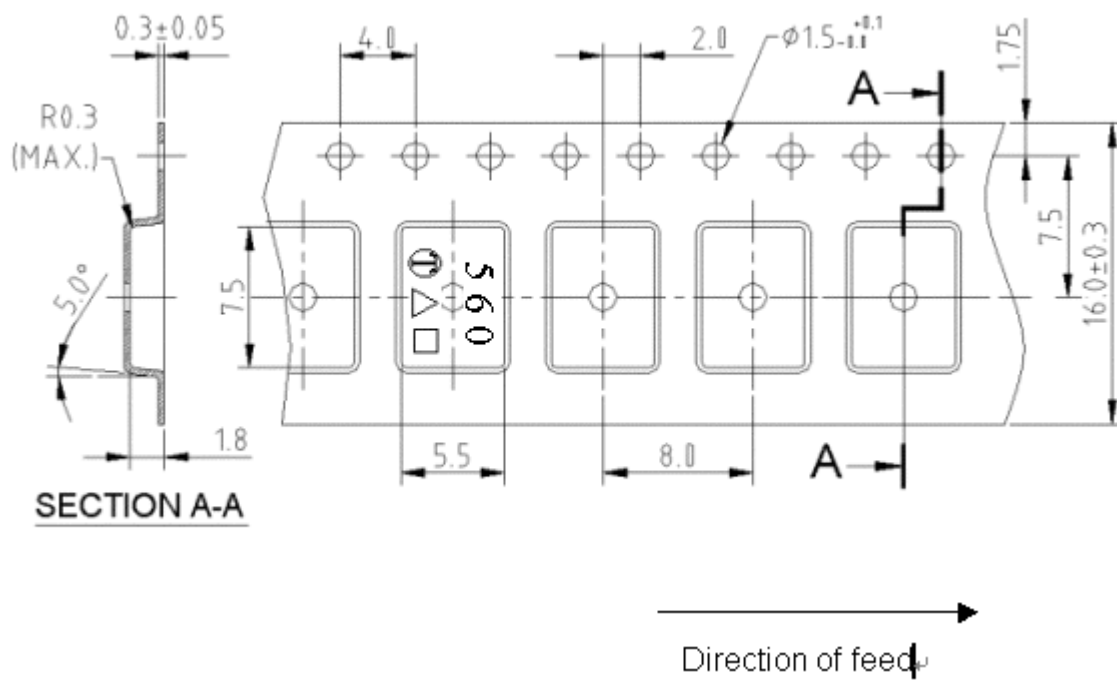
F. PACKING:

1. REEL DIMENSION

(Reel Count: 7"=1000 typ.; 13"=2000 typ.)



2. TAPE DIMENSION



G. Recommended Reflow Profile:

