



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 359MHz SMD 7.0x5.0mm

TST Parts No.: TB0656A

Customer Parts No.: _____

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

Checked by: _____ Andy Yu *Andy Yu*

Approval by: _____ Francis Chen *[Signature]*

Date: _____ 2008/8/01



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SAW Filter 359 MHz SMD 7.0mmx5.0mm

MODEL NO.: TB0656A

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -5°C to +85°C
2. Storage Temperature: -40°C to +85°C
3. Input Power Level: 10 dBm
4. Maximum DC Voltage: 10V

RoHS Compliant
 Lead free
 Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

Characteristics			Value		
			Min.		Max.
Center frequency	FC	MHz	-	359.2	-
Maximum Insertion loss	I.L.	dB	-	11.5	13.0
1dB Bandwidth		MHz	21	24.1	-
Passband Ripple in $F_C \pm 10.5$ MHz		dB	-	0.2	0.7
Group Delay Ripple in $F_C \pm 10.5$ MHz		nS	-	17	30
Group Delay Slope				5	
Temp Coefficient		ppm/°C		-18	
Attenuation:(Reference level from minimum insertion loss)					
1)	319 ~ 336 MHz	dB	40	48	-
2)	336 ~ 342 MHz	dB	40	45	-
3)	374.8 ~ 379 MHz	dB	-	14	-
4)	379 ~ 401 MHz	dB	40	44	-
Note: Group Delay compensate with 360MHz Filter					

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 250MHz)

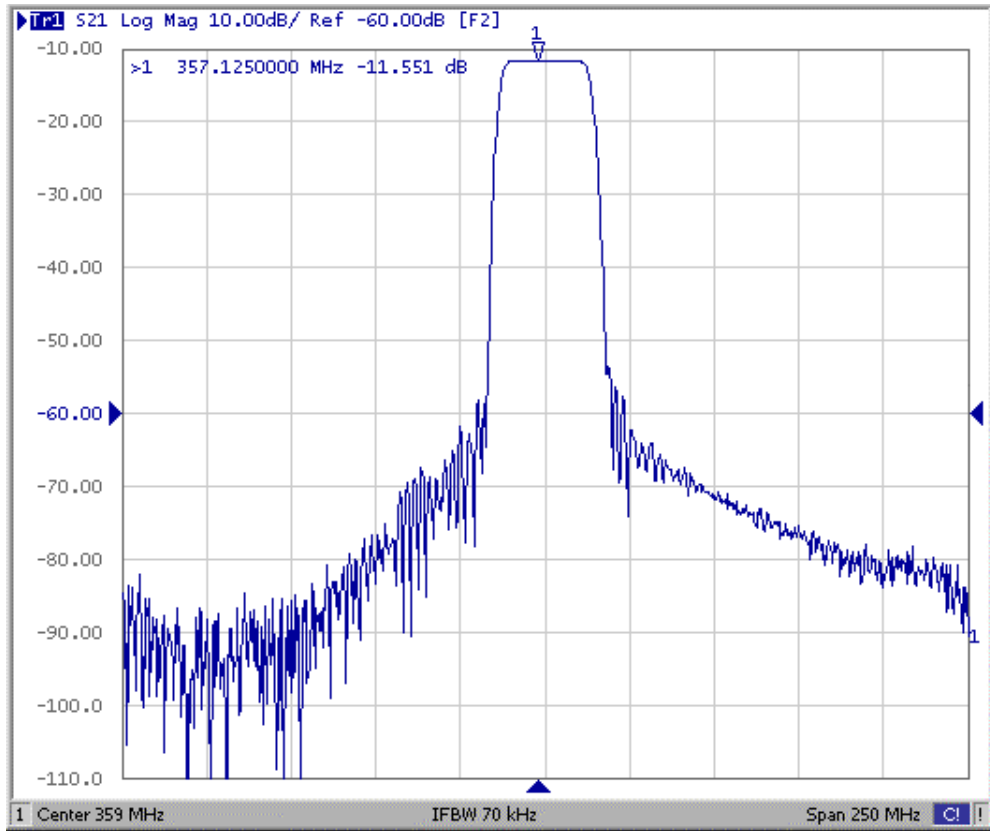


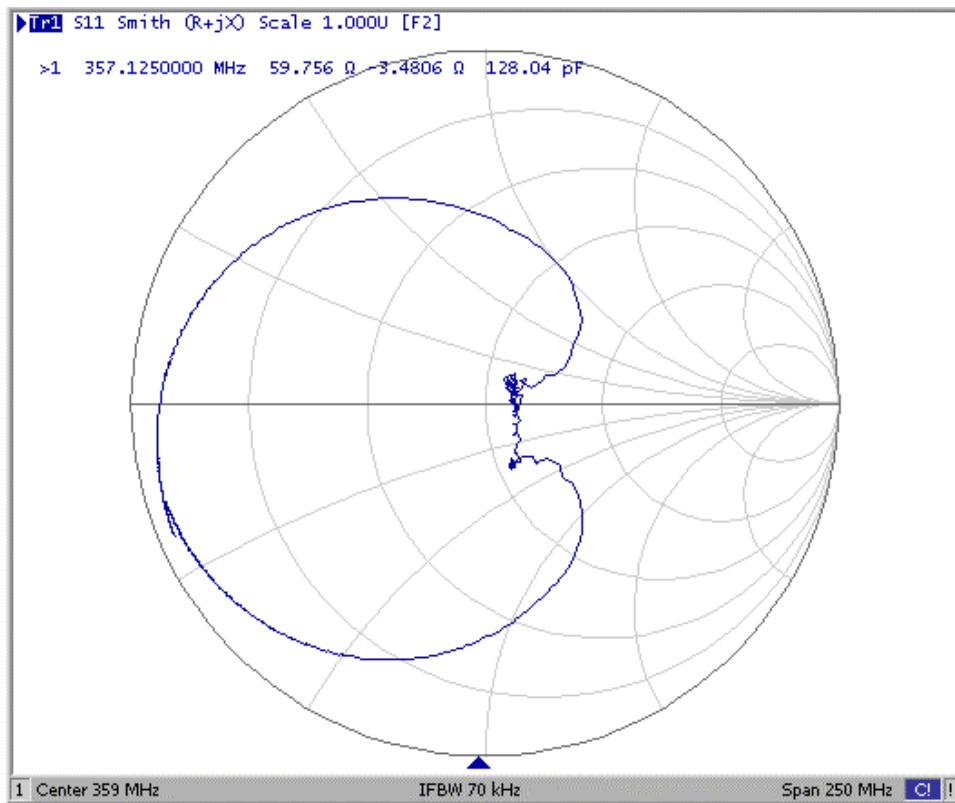
Fig1. Horizontal: 25MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 30MHz)

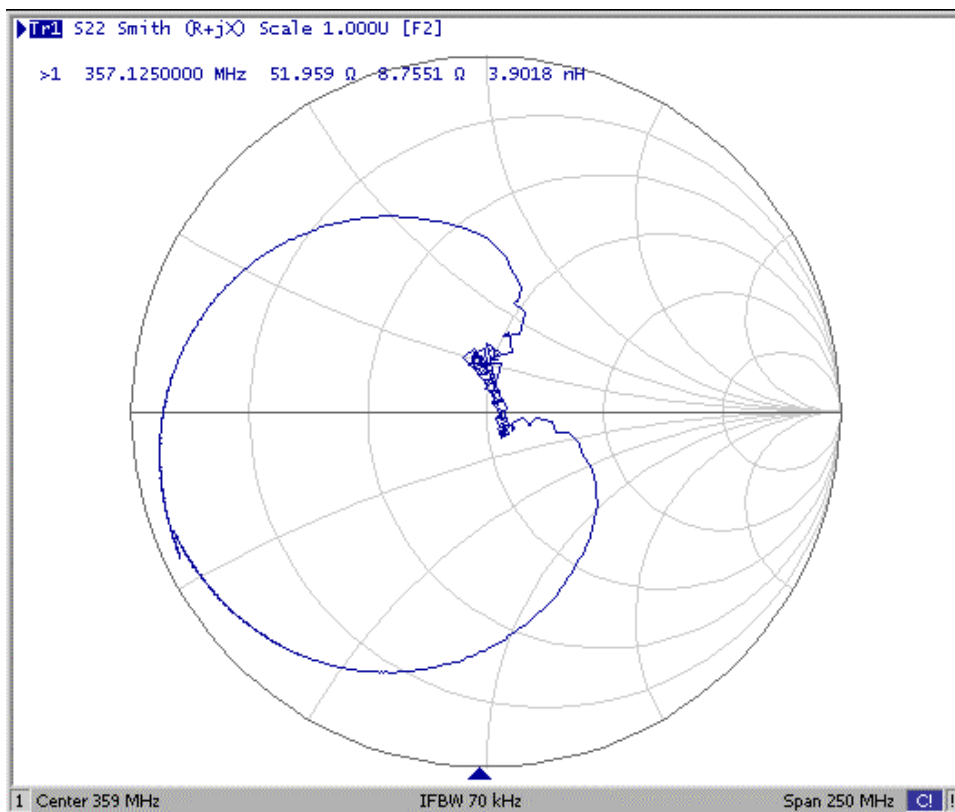


Fig2. Horizontal: 3.0MHz/Div Vertical: 20nec/Div

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

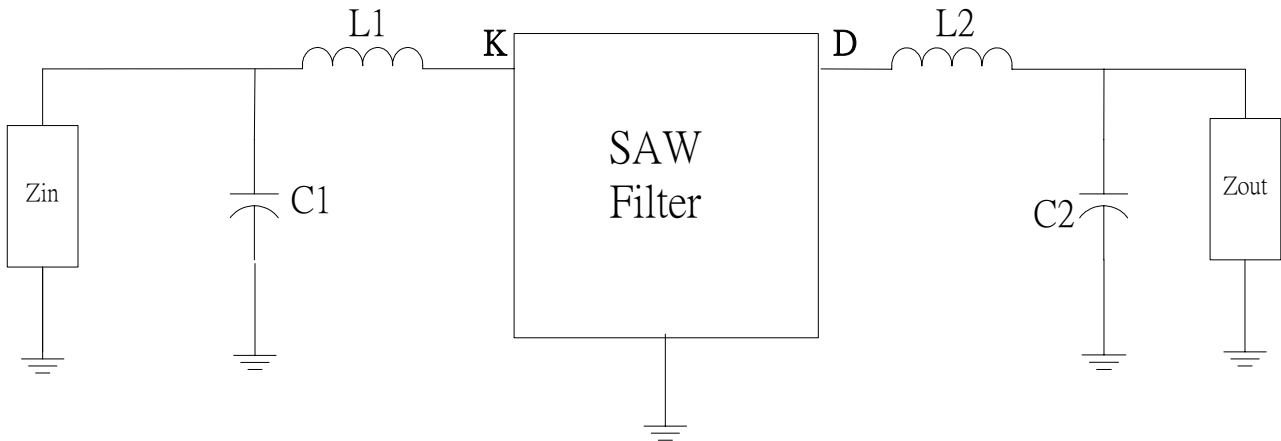


3. S22 Smith Chart (span : 150MHz)



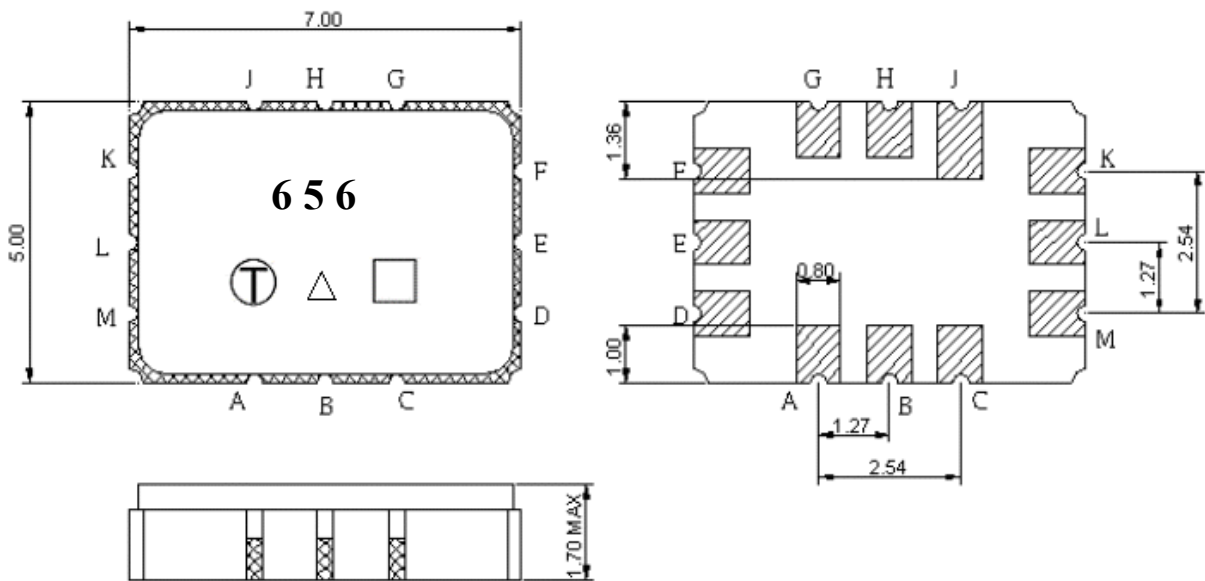
E. MEASUREMENT CIRCUIT

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



Input: $L1=27 \text{ nH}$; $C1=18 \text{ pF}$
 Output: $L2=22 \text{ nH}$; $C2=18 \text{ pF}$

F. OUTLINE DRAWING:



Pin K: RF input

Pin D: RF output

Pin A, B, C, D, E, F, G, H, J: To be Ground

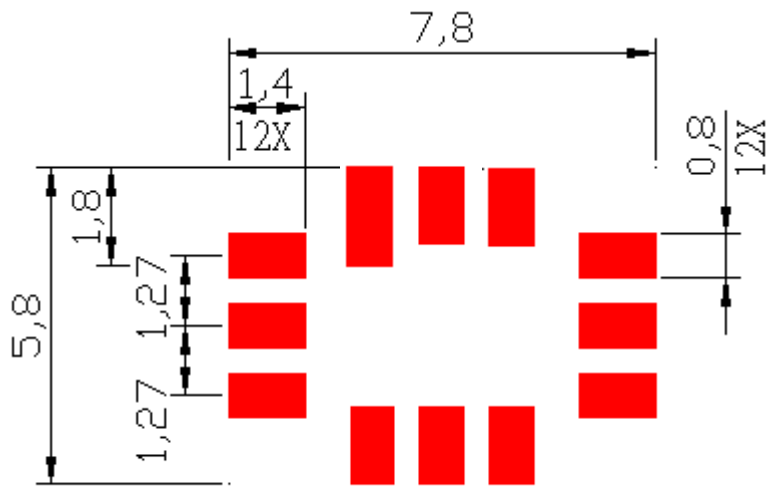
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

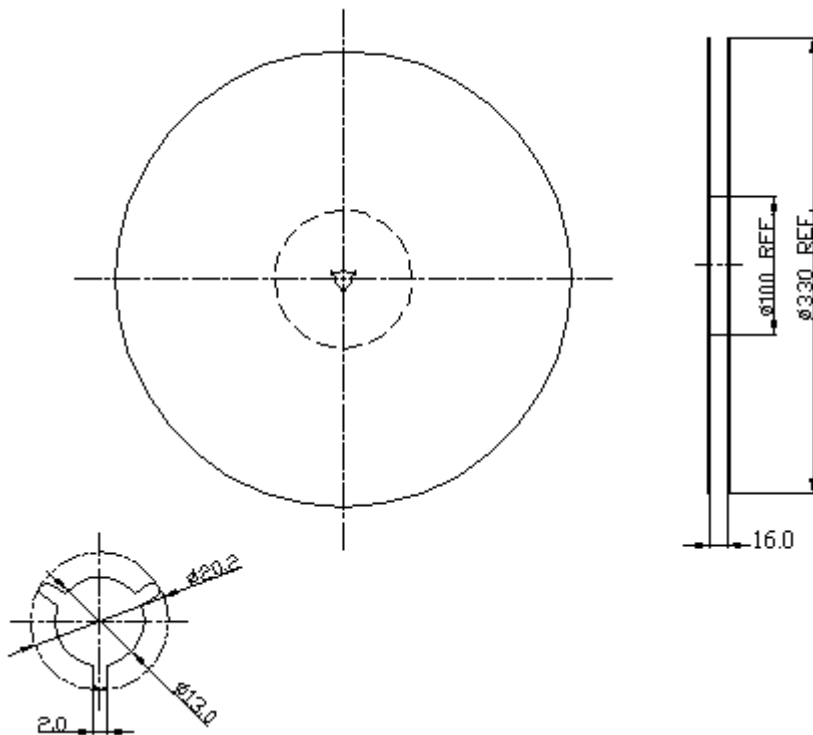
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PCB Footprint



H. PACKING:

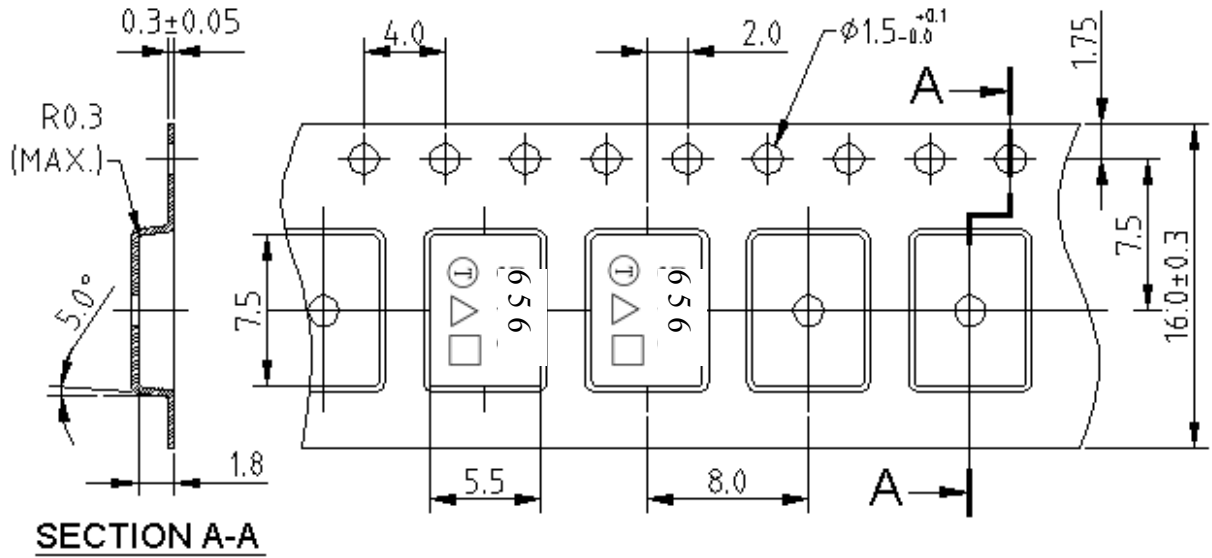
1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION

Unit: mm



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

