



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 360MHz SMD 7.0x5.0mm

TST Parts No.:TB0655A

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

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

Checked by: Andy Yu *Andy Yu*

Approval by: Francis Chen *Francis Chen*

Date: 2008/8/01



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SAW Filter 360 MHz SMD 7.0mmx5.0mm

MODEL NO.: TB0655A

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	-	360.0	-		
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	-	13	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	-	9	-		
4) 379 ~ 401 MHz dB	40	44	-		

Note: Group Delay compensate with 359MHz Filter

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 250MHz)

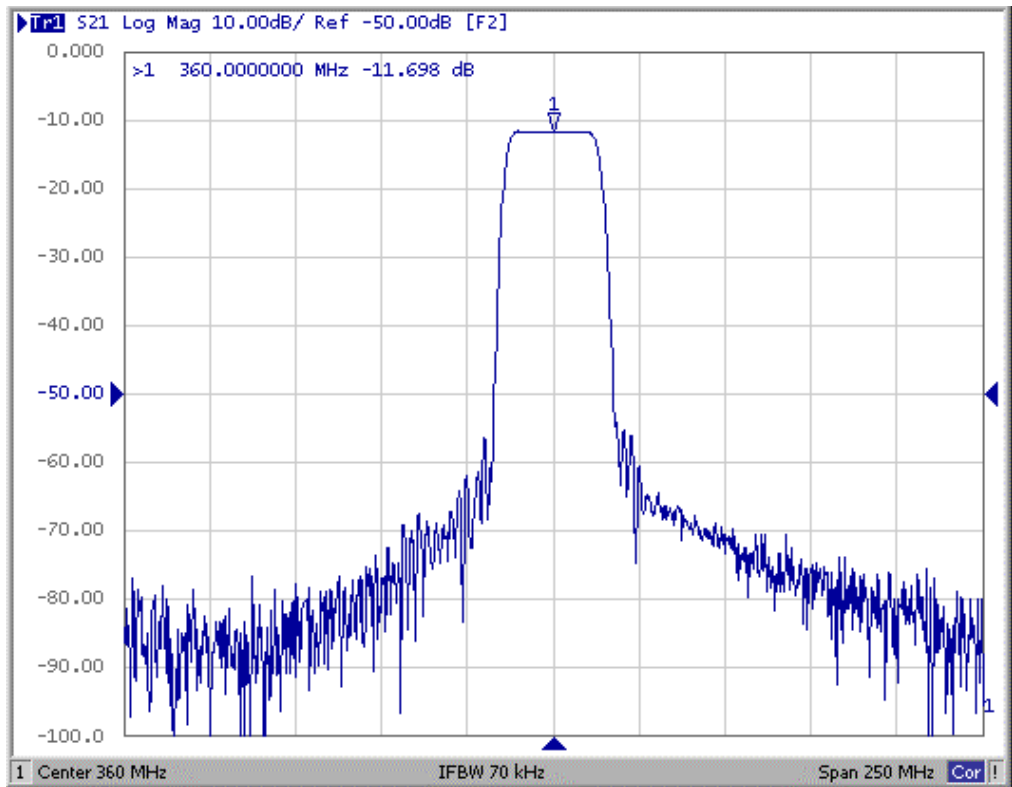


Fig1. Horizontal: 25MHz/Div Vertical: 10dB/Div

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

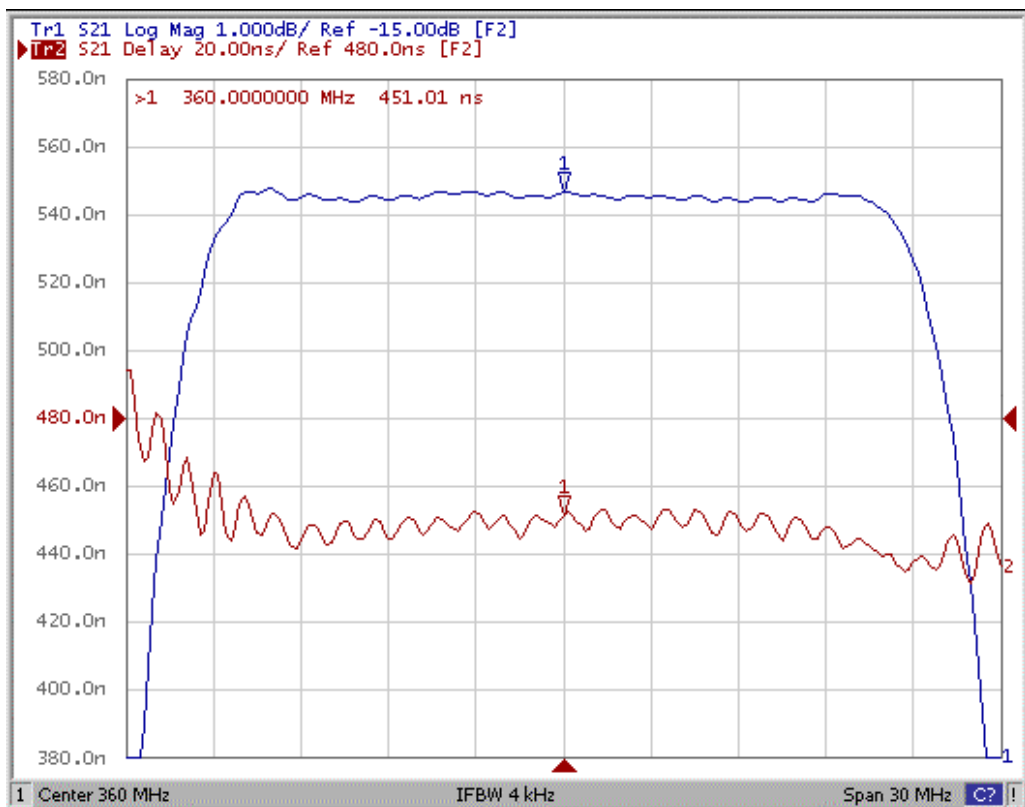
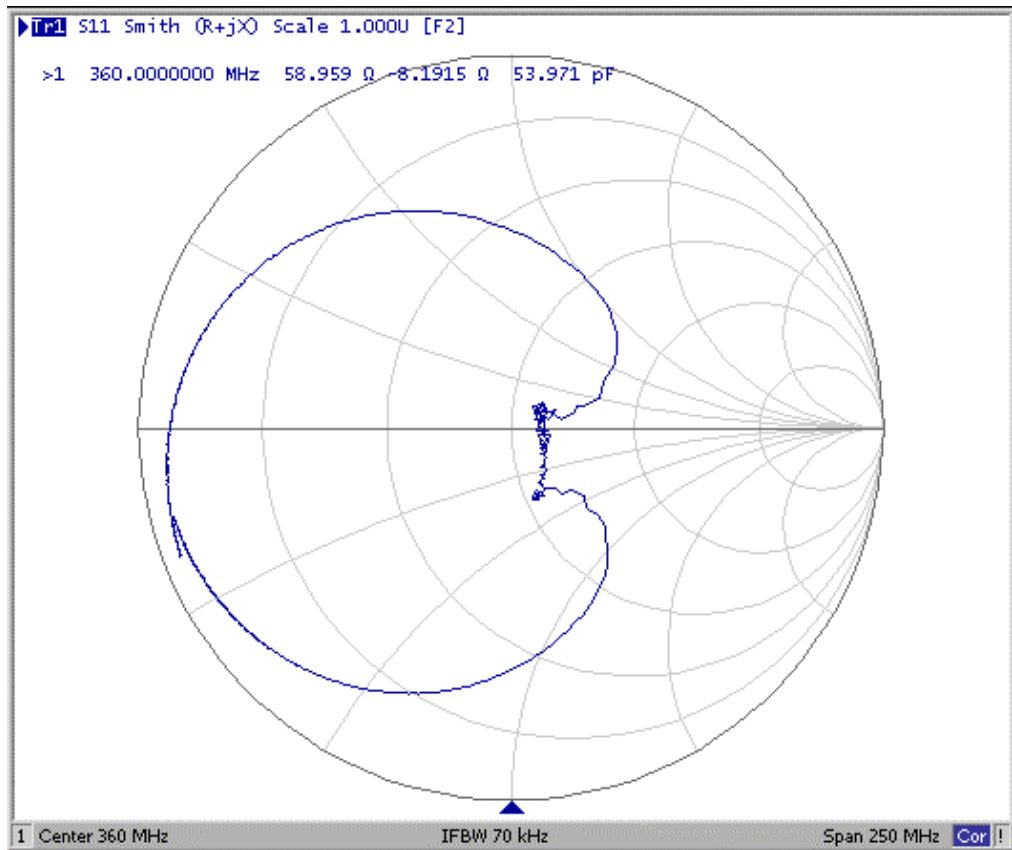
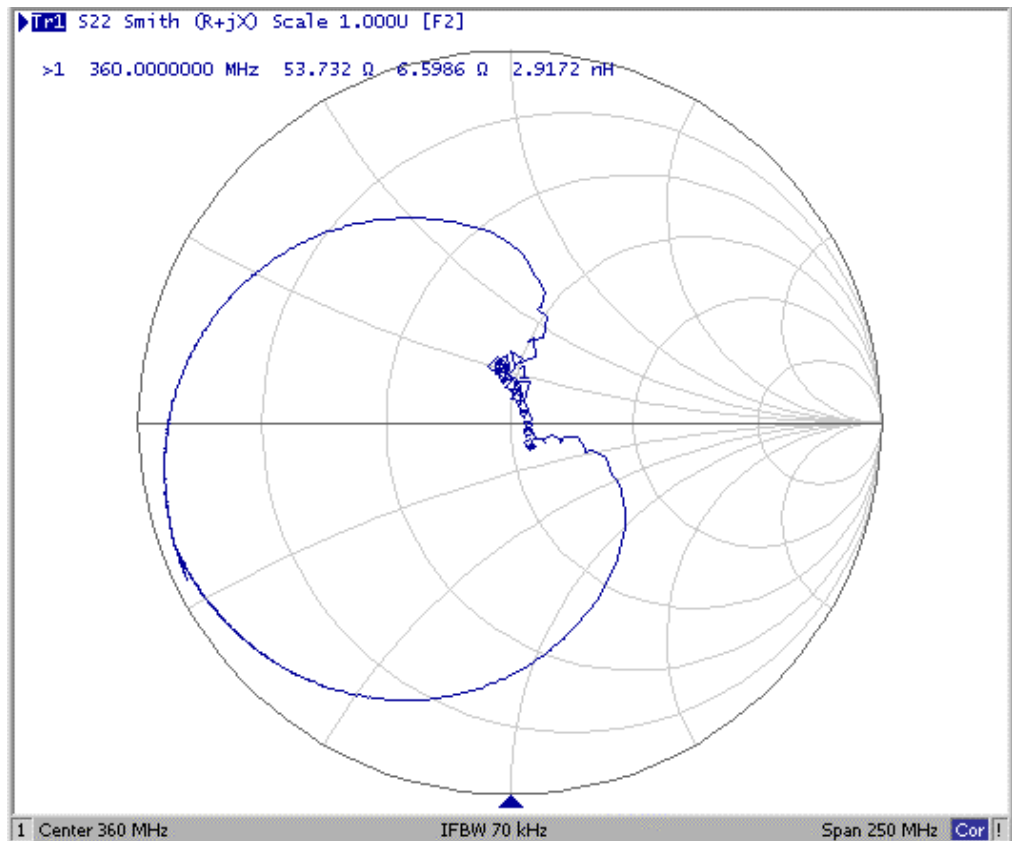


Fig2. Horizontal: 3.0MHz/Div Vertical: 20nec/Div

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

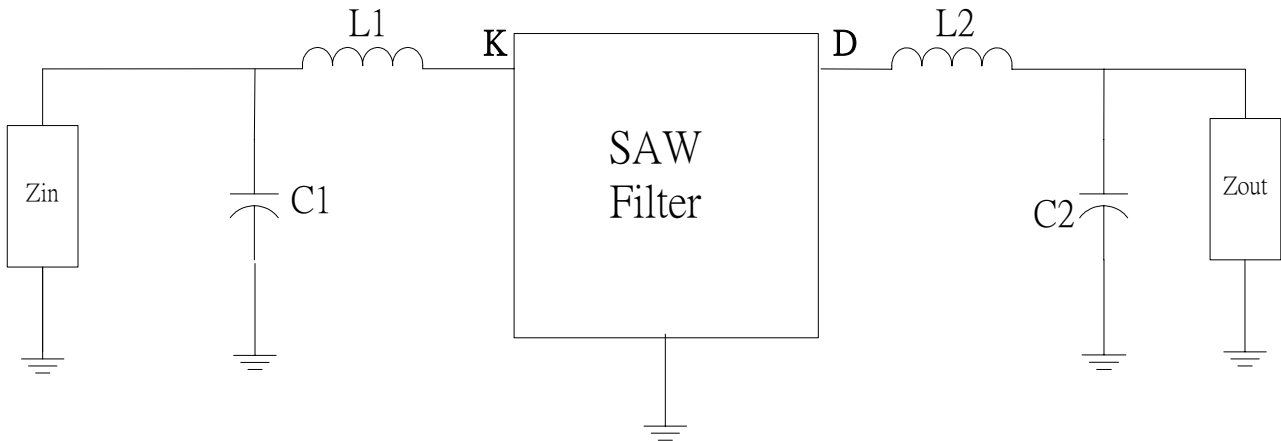


### 3. S22 Smith Chart (span : 150MHz)



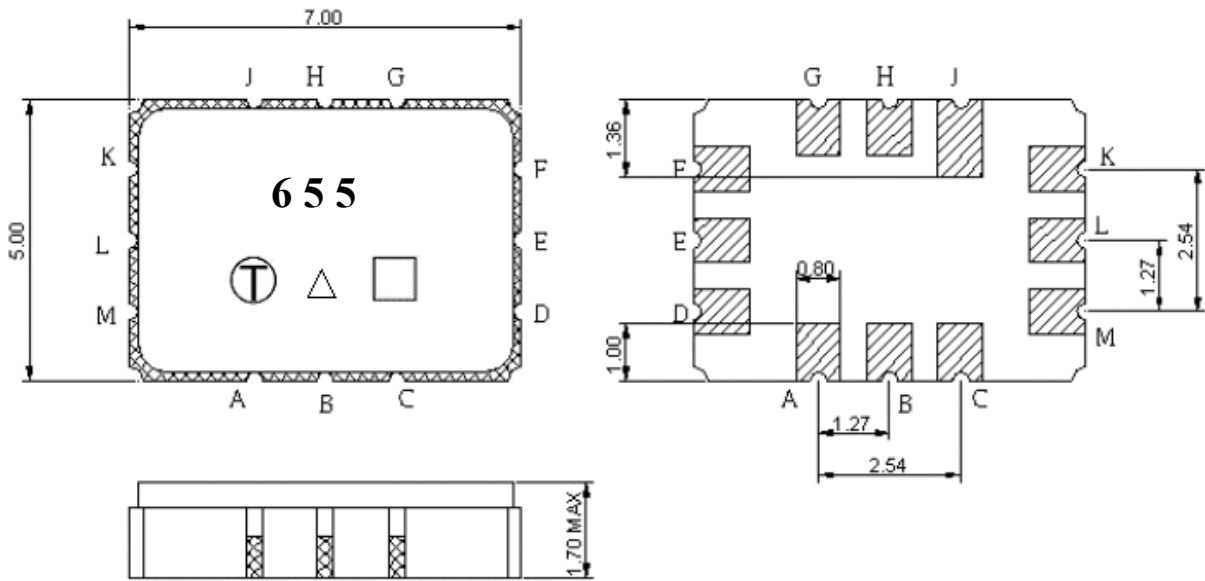
E. MEASUREMENT CIRCUIT

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



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

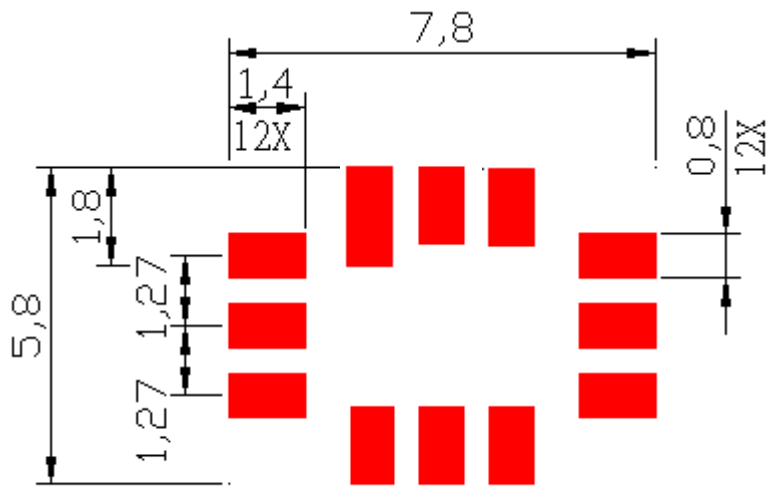
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

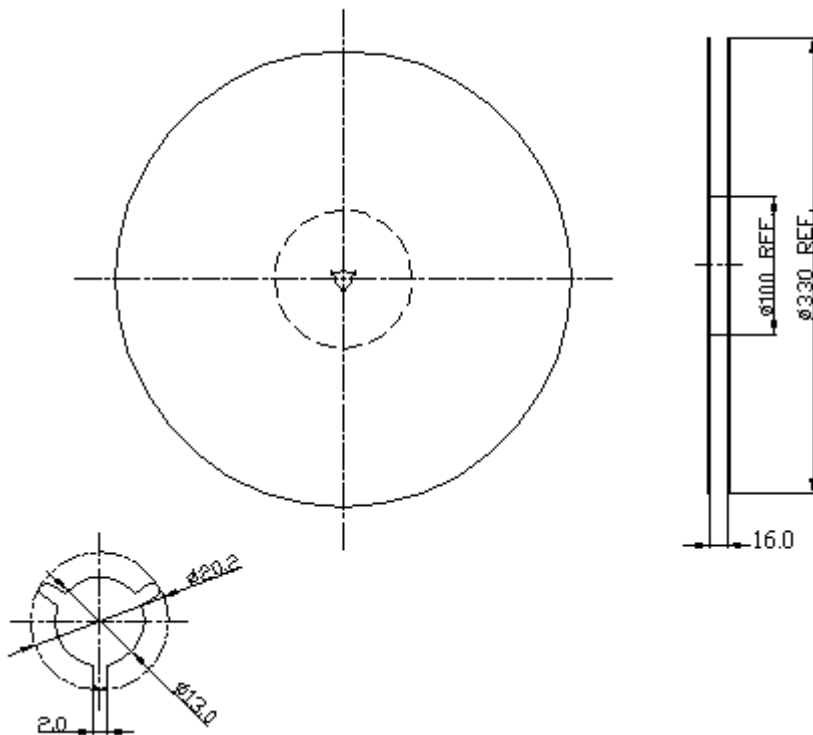
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

G. PCB Footprint



H. PACKING:

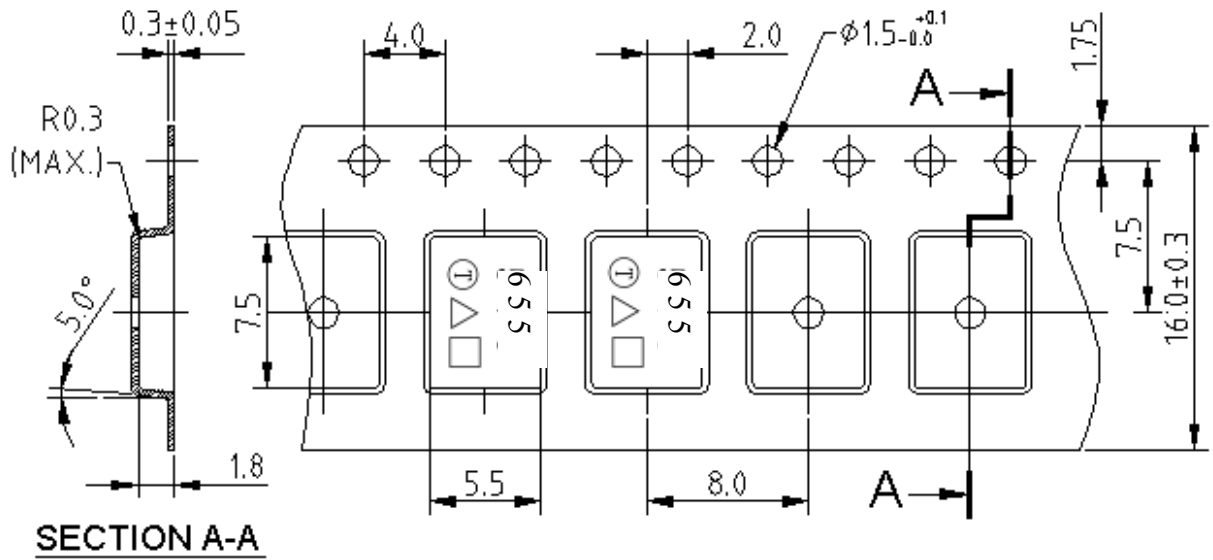
1. REEL DIMENSION



Unit: mm

## 2. TAPE DIMENSION

Unit: mm



Unit: mm

## I. RECOMMENDED REFLOW PROFILE\_:

