



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 167.5MHz SMD 13.3×6.5mm

TST Parts No.:TB0755A

Customer Parts No.:_____

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

Checked by:_____ Andy Yu *Andy Yu*

Approval by:_____ Francis Chen *Francis Chen*

Date:_____ 2009/4/20



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SAW Filter 167.5 MHz(BW=20MHz) SMD 13.3mmX6.5mm

MODEL NO.: TB0755A

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -20 °C ~ +80 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input power: 10dBm

RoHS Compliant
Lead free
Lead-free soldering

B. Characteristics :

Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	167.5	-	-
Minimum Insertion loss I.L. 151.5MHz ~ 183.5MHz dB	-	13.0	15.0	-
Passband Ripple 151.5MHz ~ 183.5MHz dB	-	0.6	1.5	-
Attenuation 10MHz ~ 143MHz dB 196MHz ~ 400MHz dB	40 40	52 45	- -	-
Substrate Material	YZ-LiNbO3			-
Temp Coefficient ppm/K	-	-94	-	-
Matching: 1.The input of the filter will be matched to <u>50 ohm</u> 2.The output of the filter will be matched to <u>50 ohm</u>				

D. FREQUENCY CHARACTERISTICS :

1.S21 Response: (span : 200MHz)

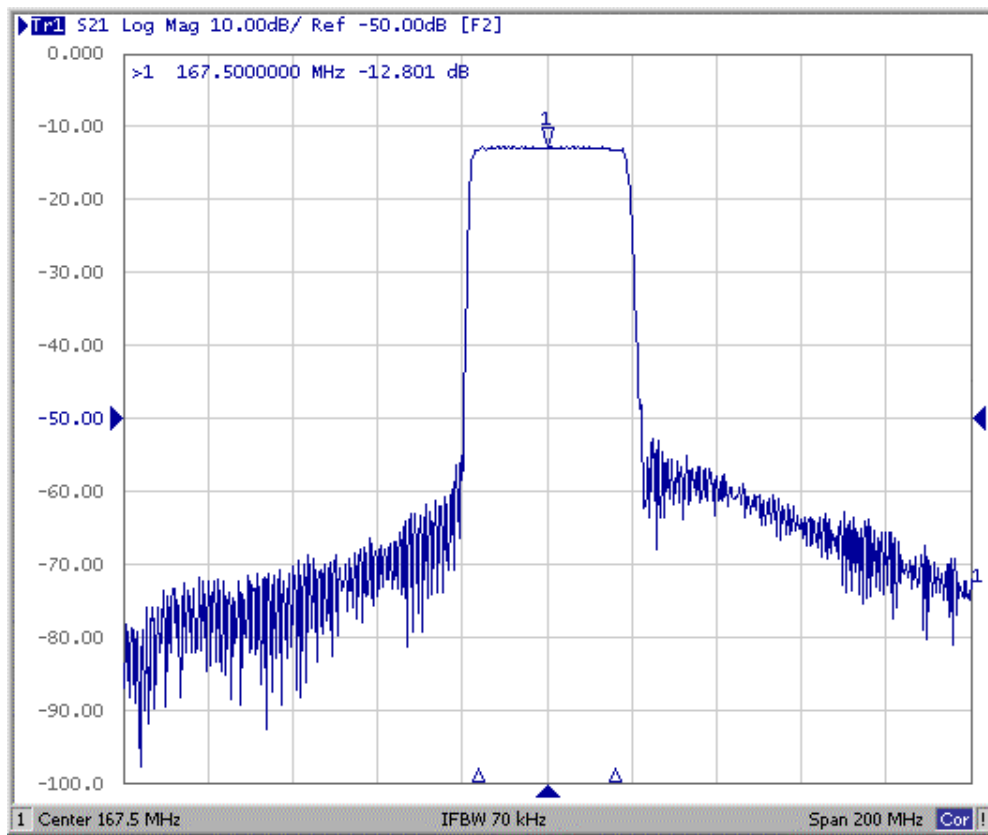


Fig1. Horizontal:20MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 50MHz)

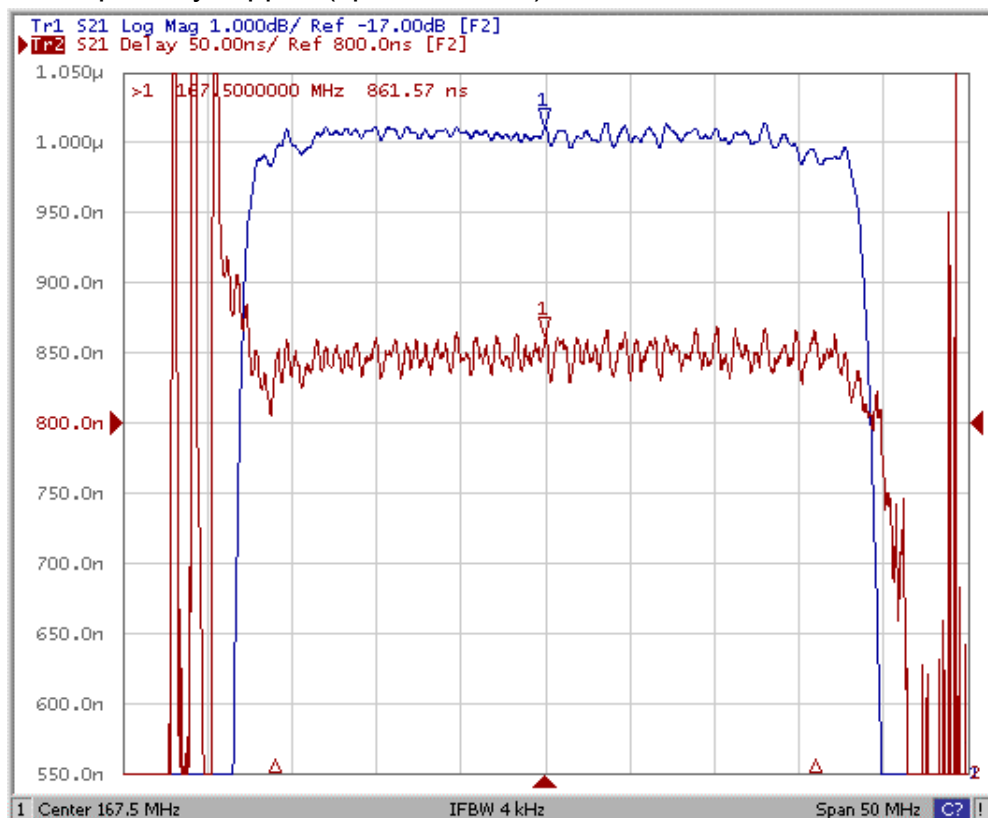
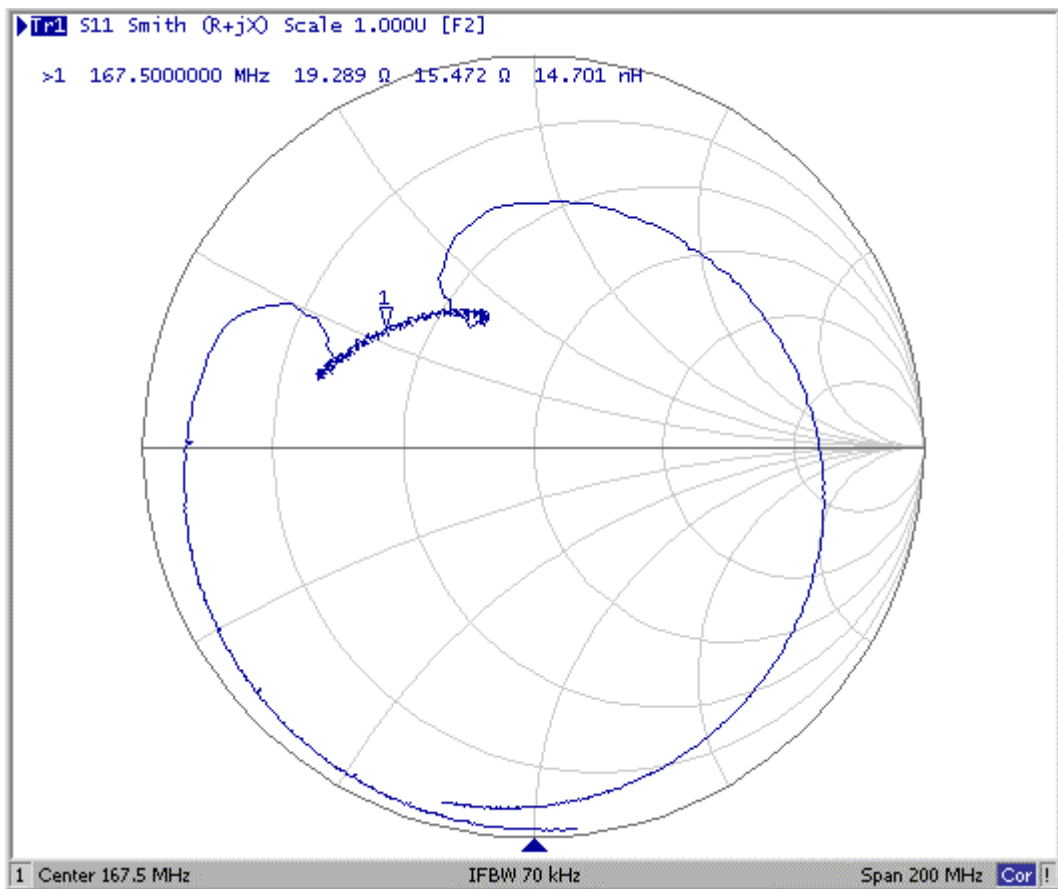
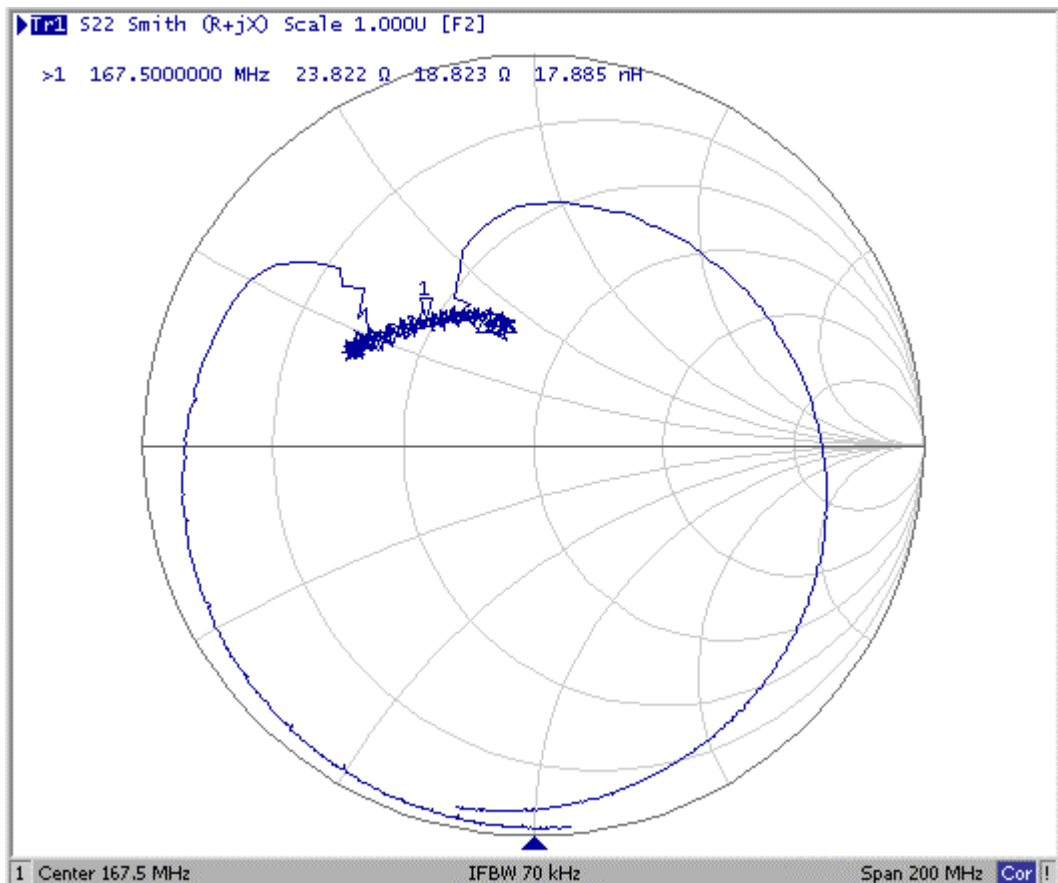


Fig2. Horizontal: 5.0MHz/Div Vertical: 50nec/Div

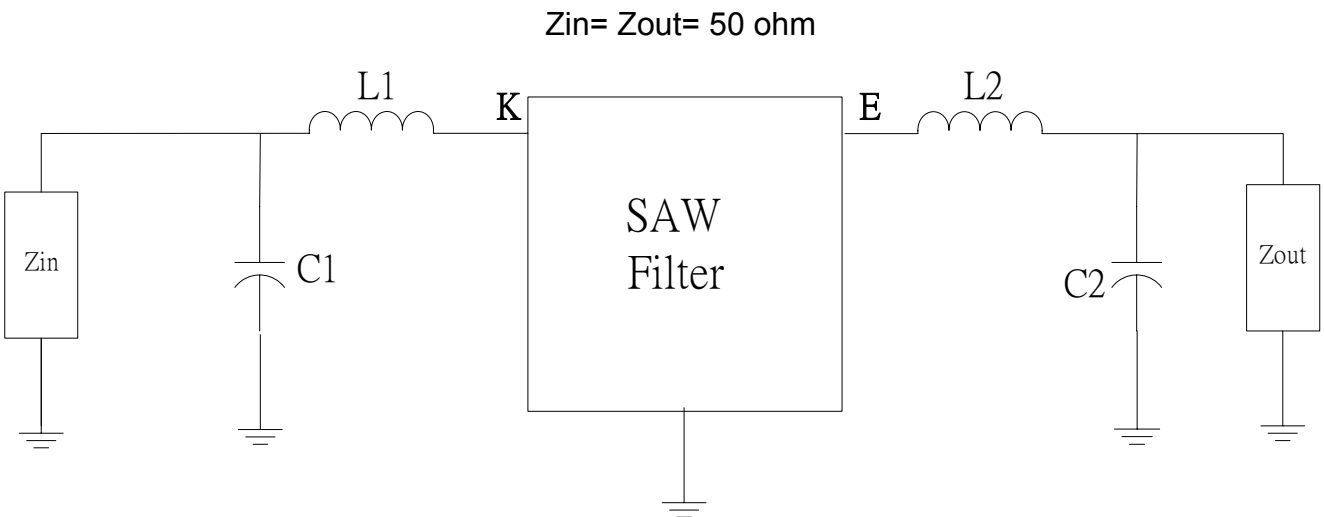
3. S11 Smith Chart: (span : 200MHz)



4. S22 Smith Chart (span : 200MHz)

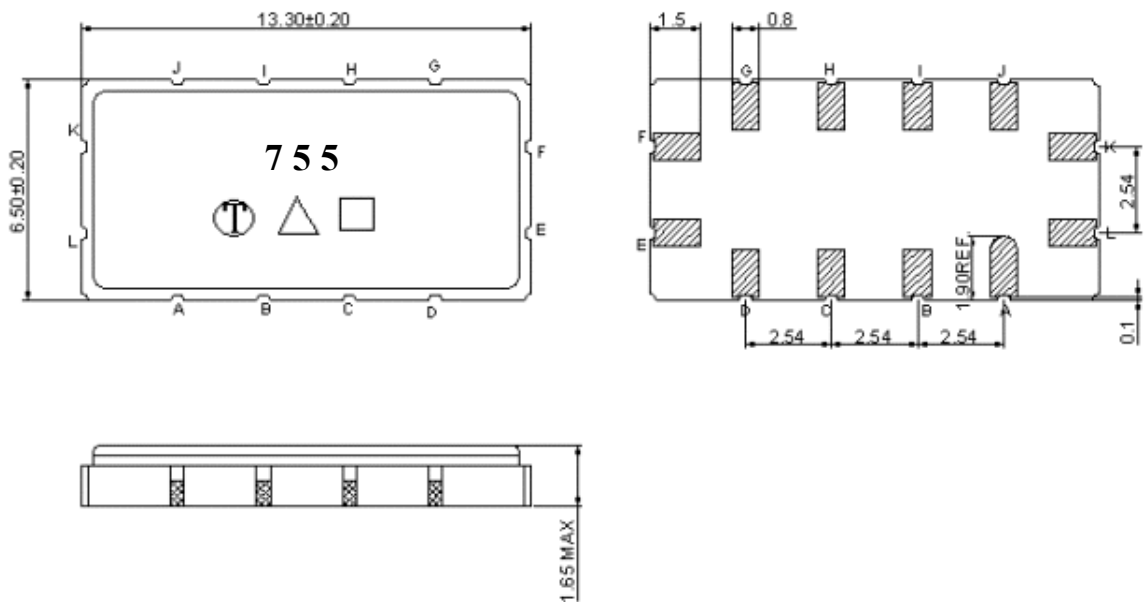


E. MEASUREMENT CIRCUIT



$$L1=56\text{nH}, C1=18\text{pF}, L2=56\text{nH}, C2=18\text{pF}$$

F.OUTLINE DRAWING:



Pin K: RF input

Pin E: RF output

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

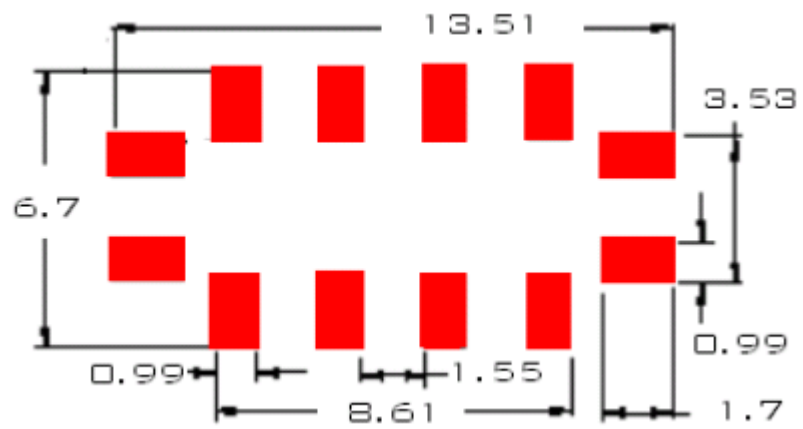
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

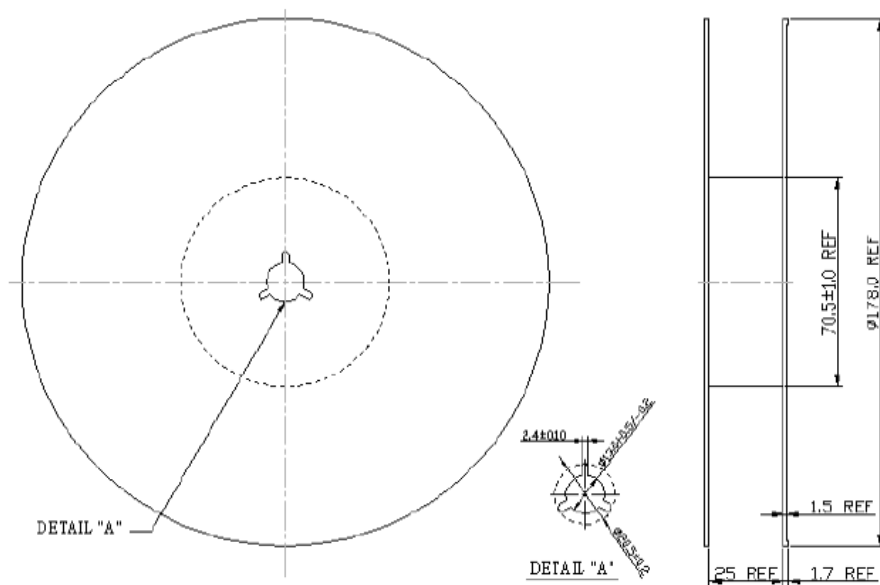
G. PCB Footprint



Unit: mm

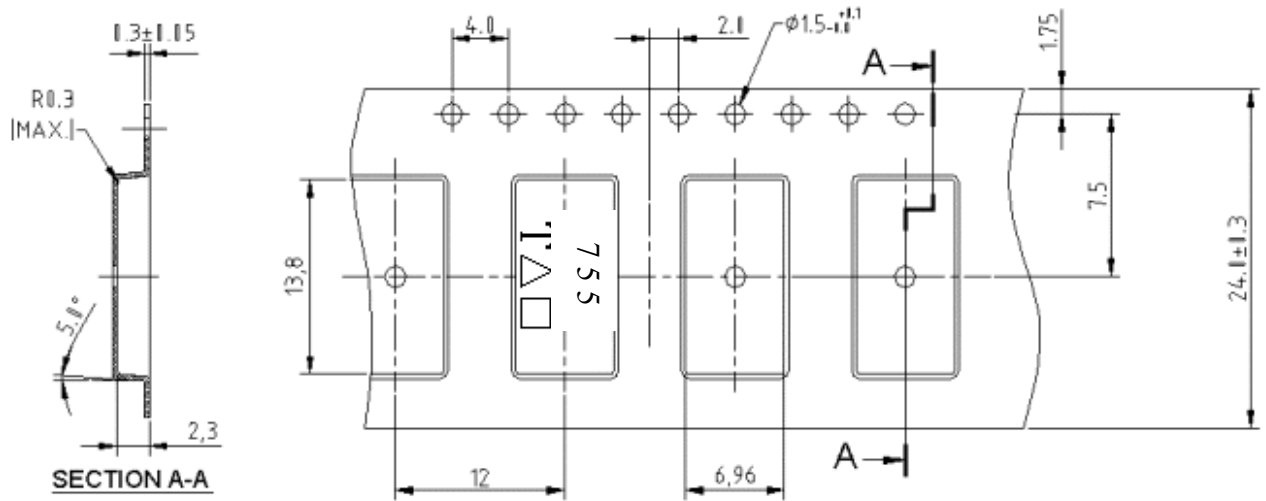
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

