



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 56MHz SMD 13.3×6.5mm

TST Parts No.:TB0752A

Customer Parts No.: _____

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

Checked by: _____ Andy Yu *Andy Yu*

Approval by: _____ Francis Chen *Francis Chen*

Date: _____ 2009/4/20



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

SAW Filter 56 MHz(BW=13MHz) SMD 13.3mmX6.5mm
MODEL NO.: TB0752A

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	-	56.0	-	-
Minimum Insertion loss I.L. 49.5MHz ~ 62.5MHz dB	-	13.0	15.0	-
Passband Ripple 49.5MHz ~ 62.5MHz dB	-	1.0	1.5	-
Attenuation 10MHz ~ 45MHz dB 70MHz ~ 200MHz dB	40 40	46 43	- -	-
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 : 100MHz)

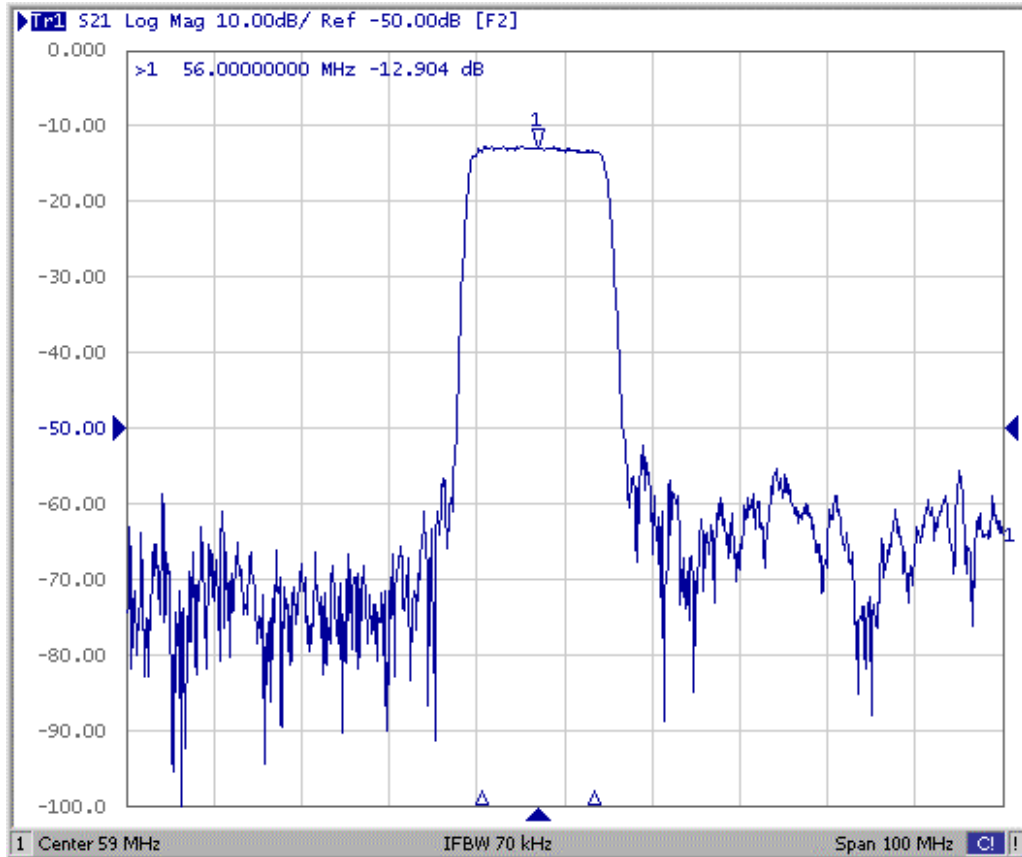


Fig1. Horizontal:10MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 20MHz)

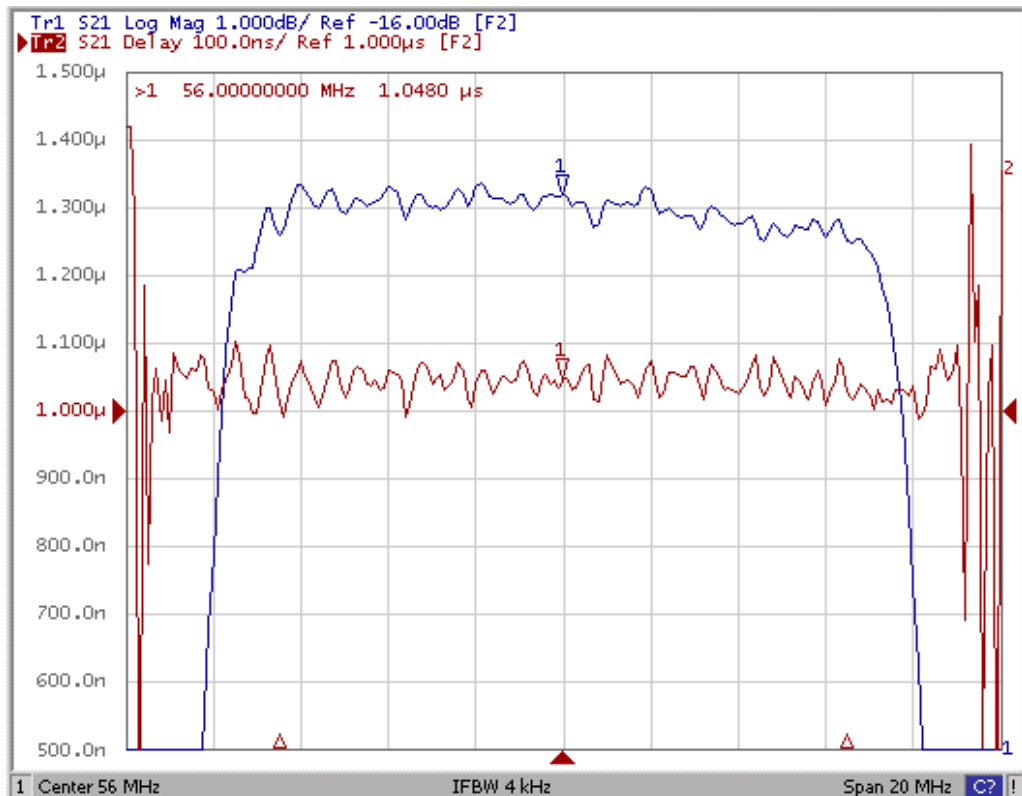
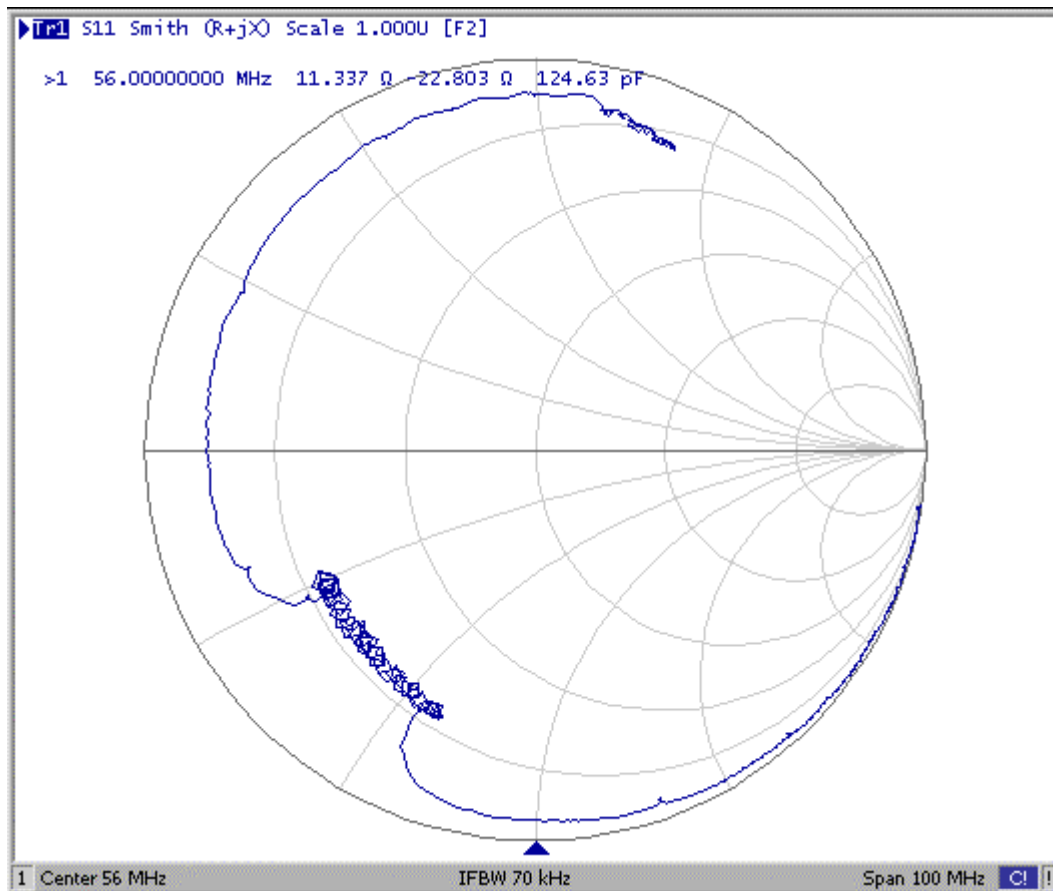
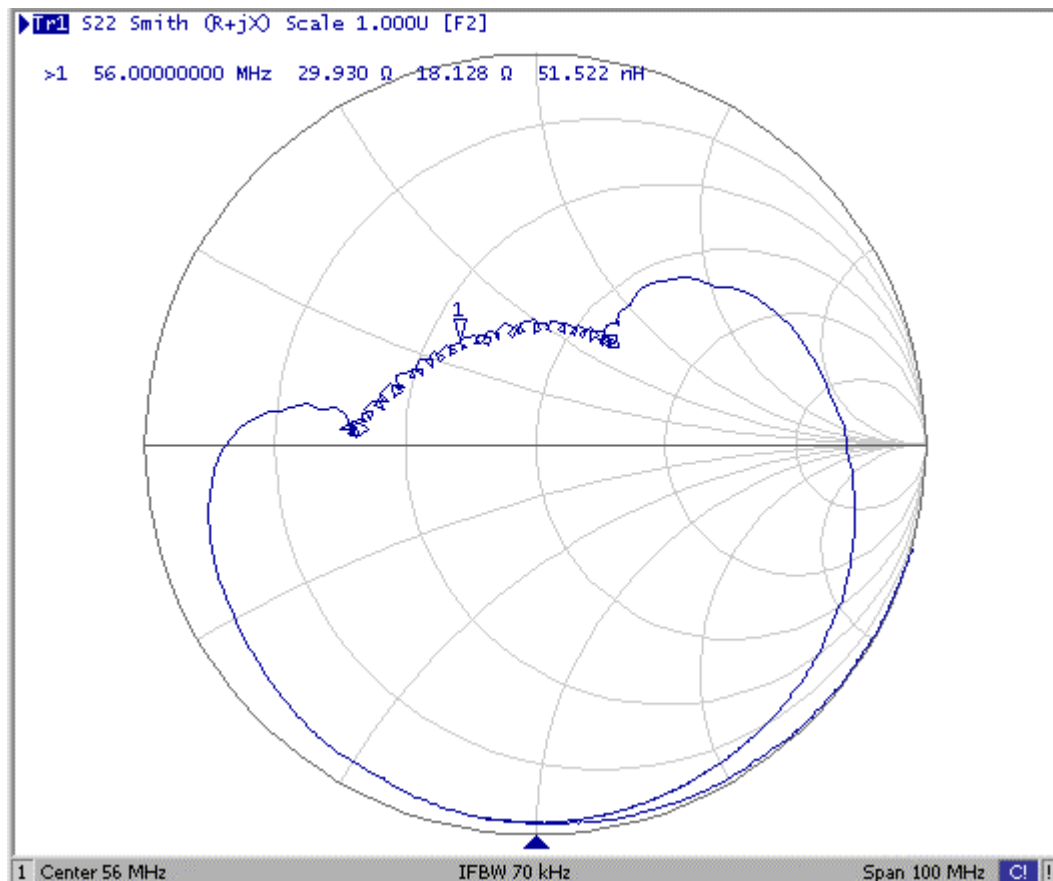


Fig2. Horizontal: 2.0MHz/Div Vertical: 100nec/Div

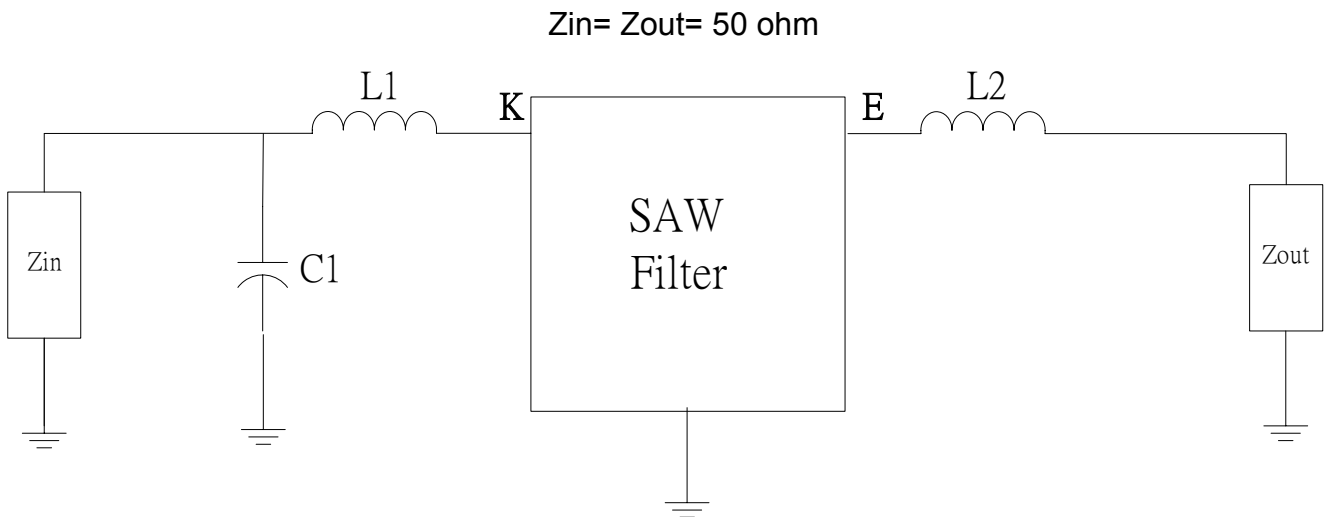
3. S11 Smith Chart: (span : 100MHz)



4. S22 Smith Chart (span : 100MHz)

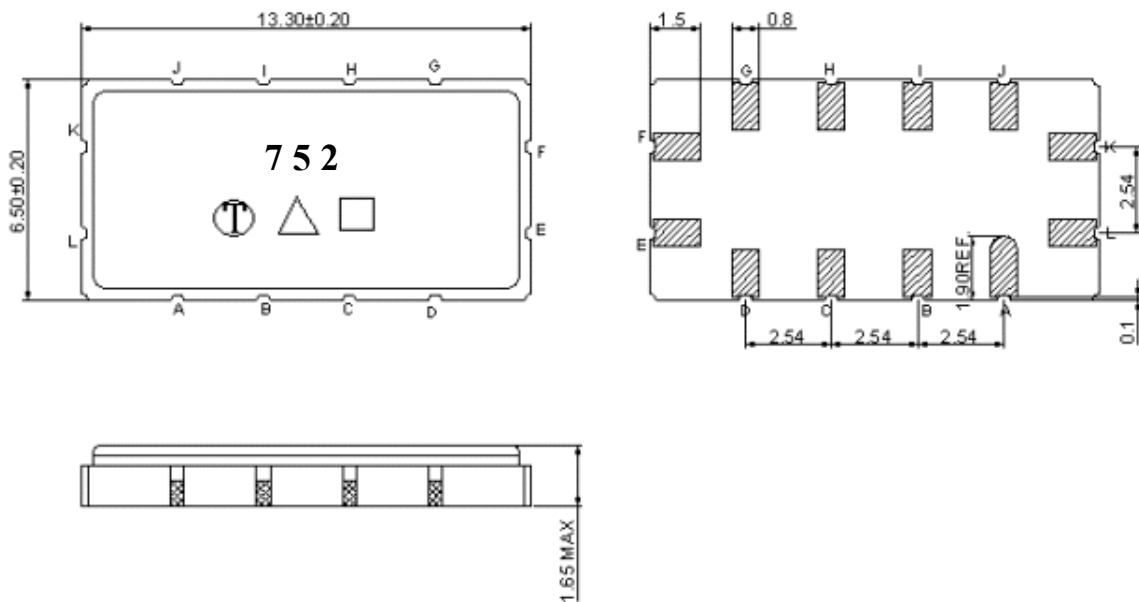


E. MEASUREMENT CIRCUIT



L1=300nH, C1=39pF, L2=150nH.

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

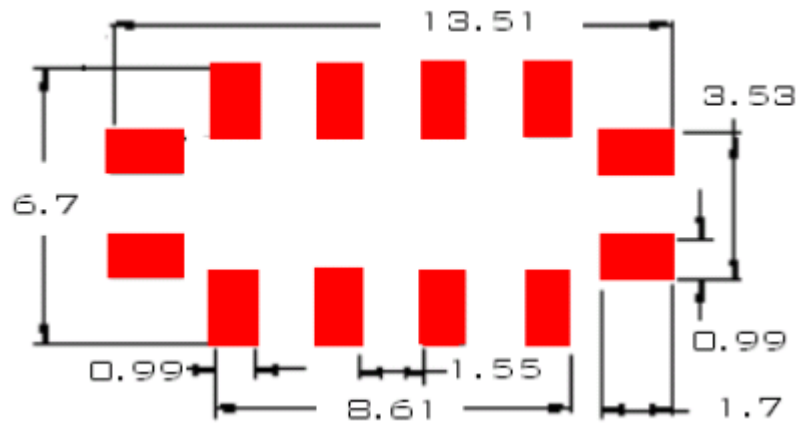
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

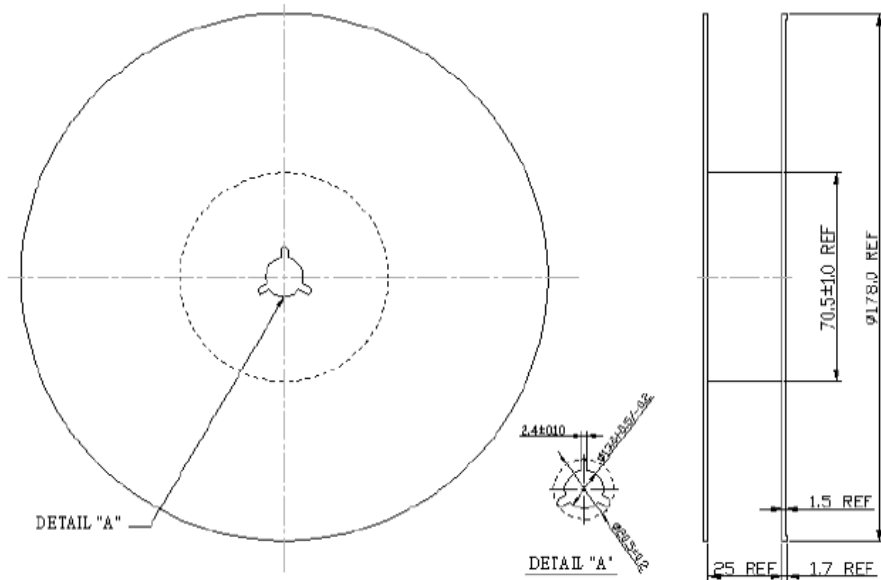
G. PCB Footprint



Unit: mm

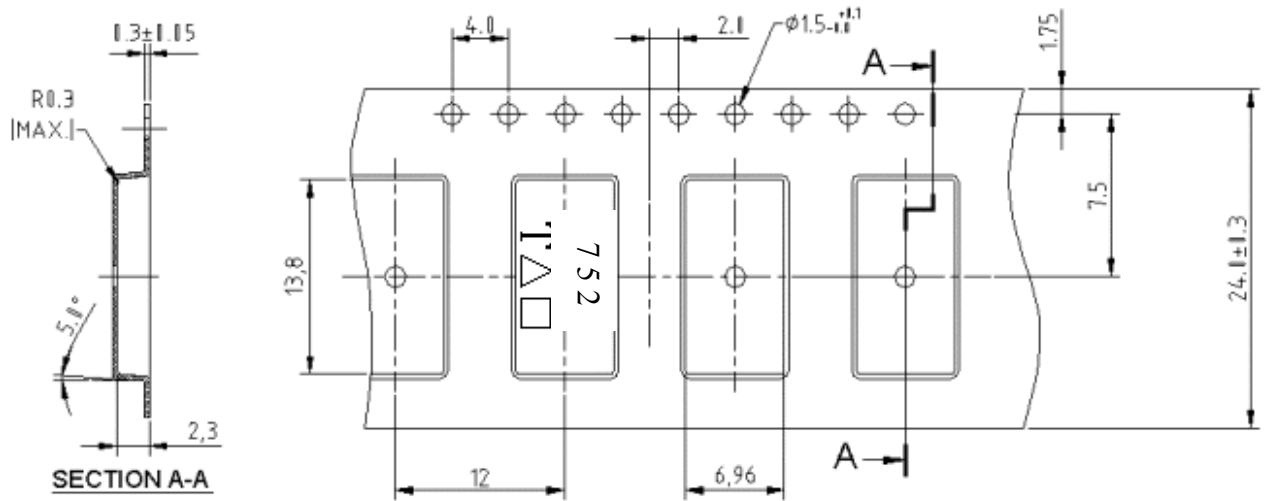
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

