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

Product Specifications Approval Sheet

Product Description: SAW Filter 120MHz SMD 13.3x6.5

TST Part No.: TB0763A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Ricky Lee

Approved by: Francis Chen

Date: 2009/05/014

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.

TAI-SAW TECHNOLOGY CO., LTD.

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IF SAW Filter 120MHz(BW=15MHz) SMD 13.3X6.5mm

MODEL NO.: TB0763A 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	-	120.0	-	-
Minimum Insertion loss I.L.	dB	-	17.0	20.0	-
1.5dB BW	MHz	15.0	17	-	
Rejection at Fc+/-13MHz	MHz	40.0	46.0	-	
Passband Ripple Fc+/-7.5MHz	dB	-	0.85	1.0	-
Group-Delay Ripple Fc+/-7.5MHz	nsec	-	100	120	-
Phase Linearity Fc+/-7.5MHz	p-p deg	-	11	13	
Rejection					
10~100MHz	dBc	45	52	-	-
140~180MHz	dBc	40	47	-	-
Temp Coefficient	ppm/K	-	-94	-	-

Matching:
1.The input of the filter will be matched to 50 ohm
2.The output of the filter will be matched to 50 ohm

C. Frequency Characteristics :

1. S21 Response: (span : 100MHz)

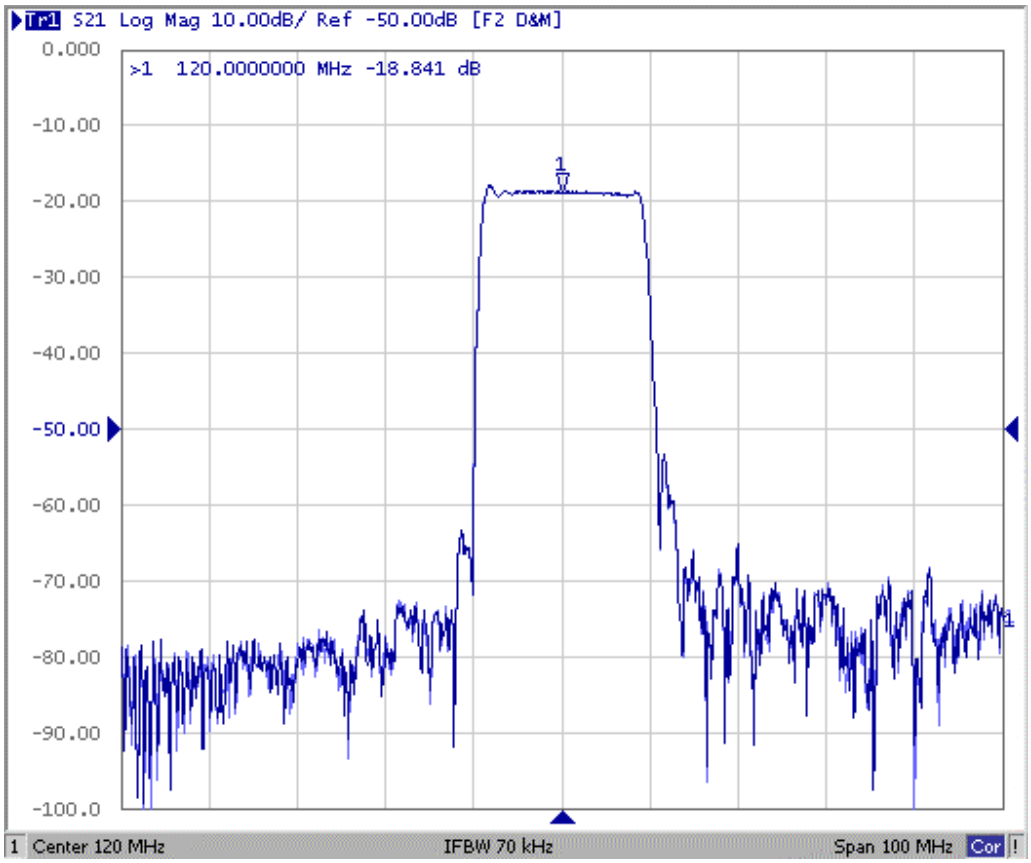


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

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

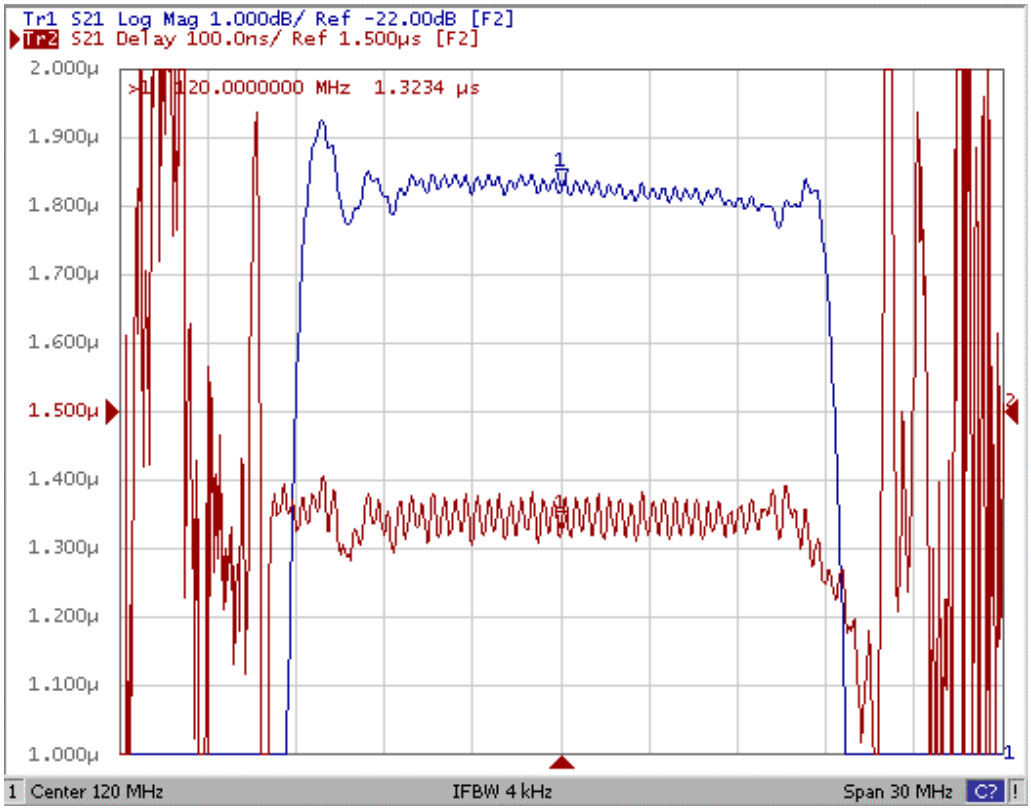
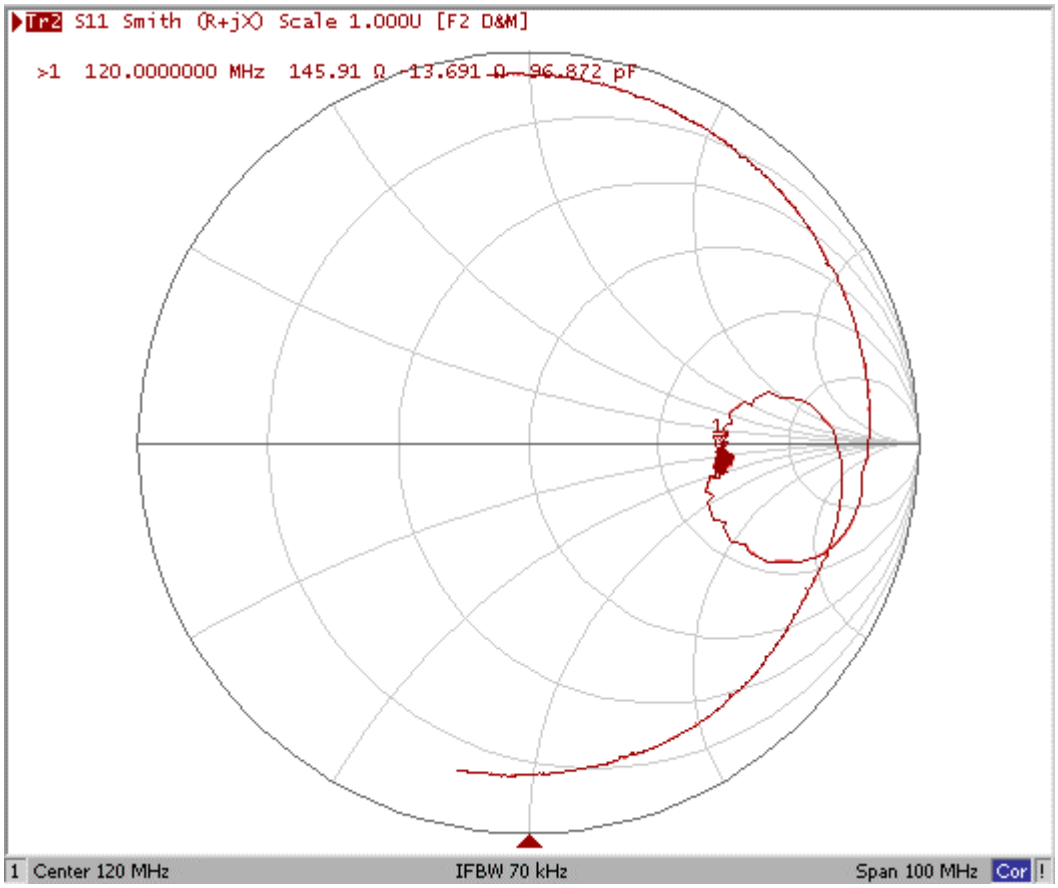
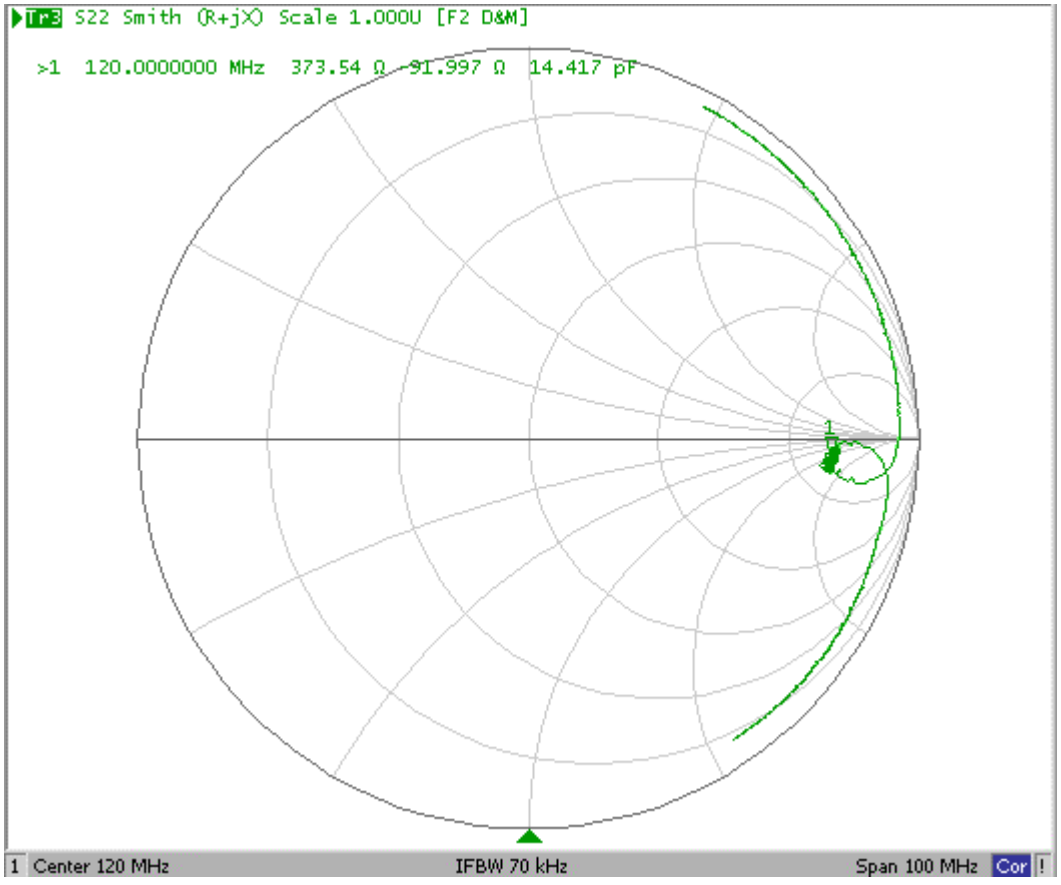


Fig2. Horizontal: 3MHz/Div Vertical: 100ns

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

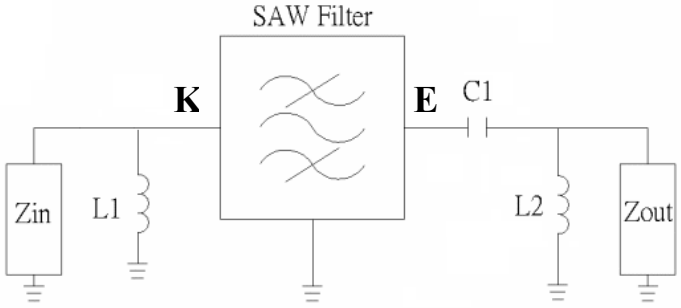


4. S22 Smith Chart (span : 100MHz)



D. Measurement Circuit:

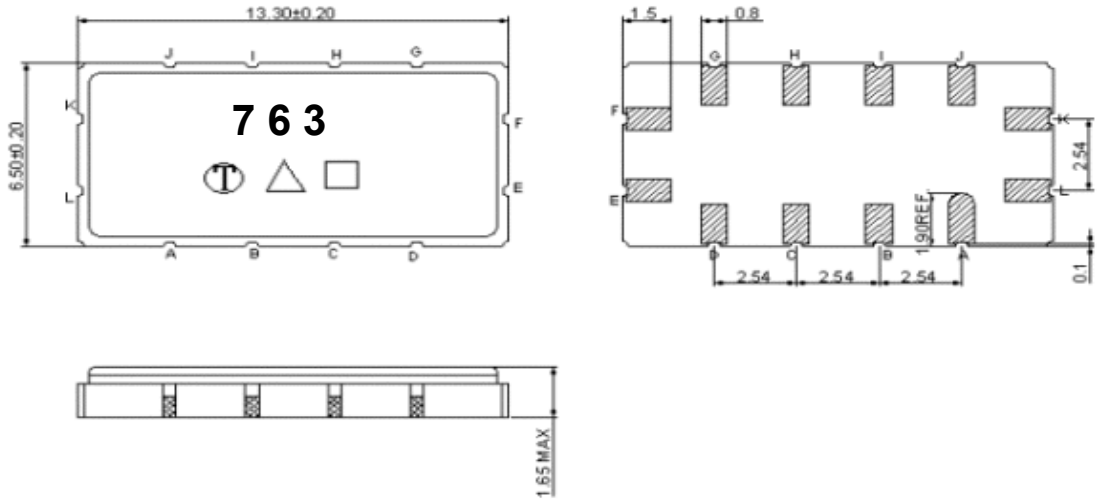
Matching Circuit



Zin and Zout are 50Ω.

L1=68 nH, C1= 82pF , L2= 120nH

E. Outline Drawing:



Pin K: RF input

Pin E: RF output

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

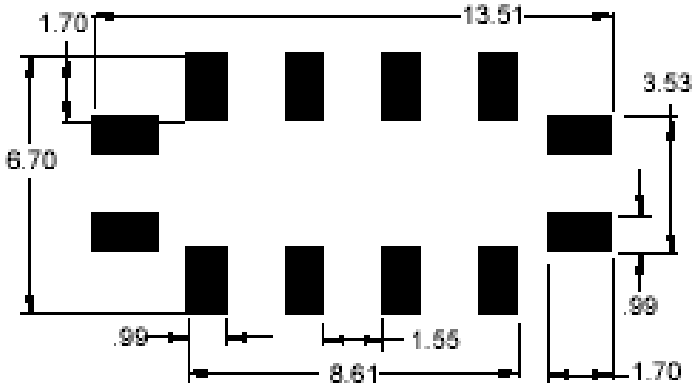
□ : Week Code (Follow the table from planner each year)

Unit : mm (week01, 02, 03…52 =>A, B, C…z)

△ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	B	b

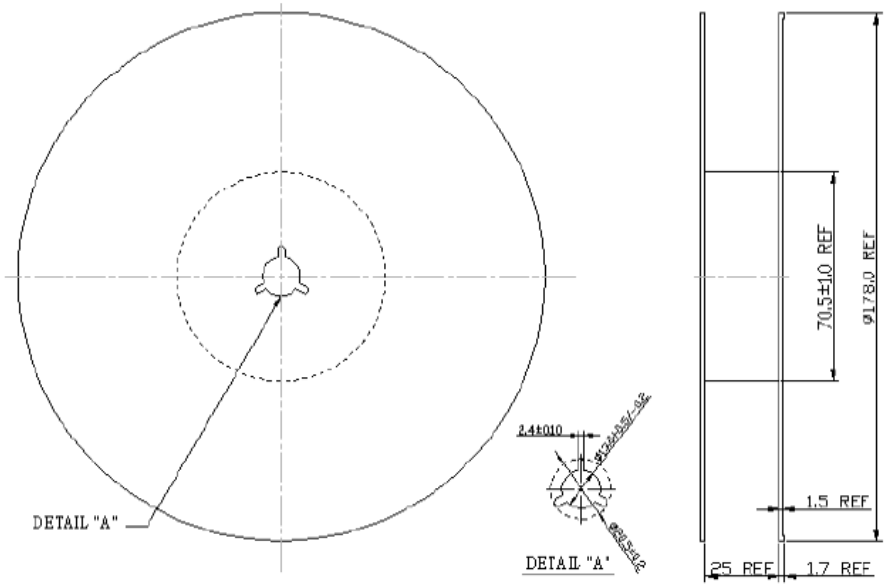
F. PCB Footprint:



Unit: mm

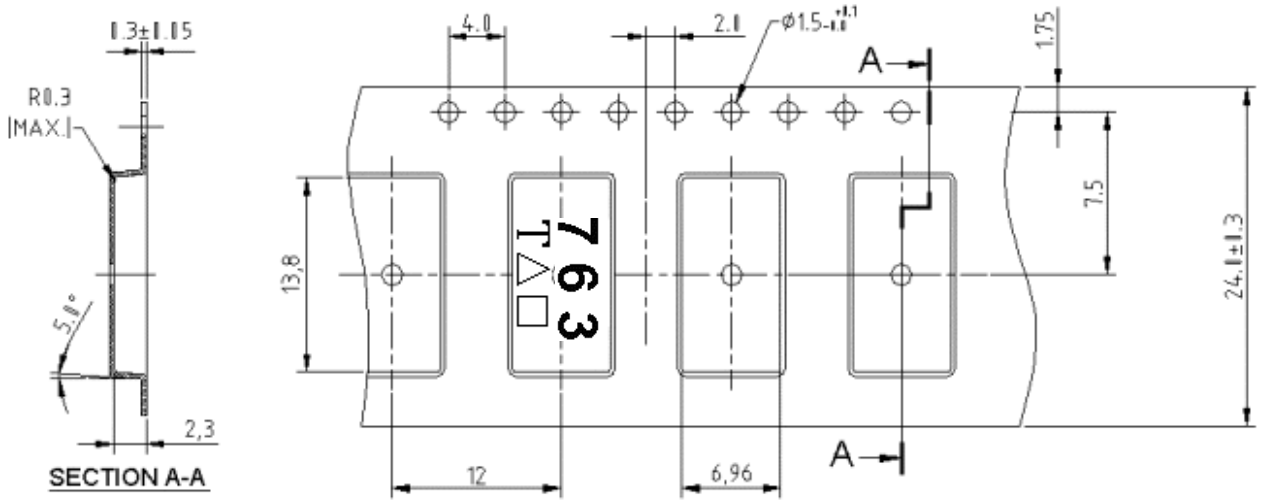
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE :

