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
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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 70MHz SMD 13.3×6.5mm

TST Parts No.:TB0740A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Ricky Lee Ricky

Approval by: Francis Chen

Date: 2009/02/12

TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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IF SAW Filter 70MHz(BW=9MHz) SMD 13.3X6.5mm

MODEL NO.: TB0740A 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			Mote
		Min.	Typ.	Max.	
Center frequency F_C	MHz	69.8	70.0	70.2	
Minimum Insertion loss I.L.	dB	-	10.6	12.0	
1dB BW	MHz	9.0	9.7	-	
3dB BW	MHz	9.5	10	-	
35dB BW	MHz	-	11.7	13.0	
Passband Ripple (F_C ± 4MH)	dB	-	0.6	1.0	
Group-Delay Ripple (F_C ± 4MH)	nsec	-	80	160	
Attenuation (Reference to Minimum Insertion loss)					
10 ~ 63MHz	dB	40	45	-	
78 ~ 140MHz	dB	40	45	-	
Temp Coefficient	ppm/℃	-	-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 : 50MHz)

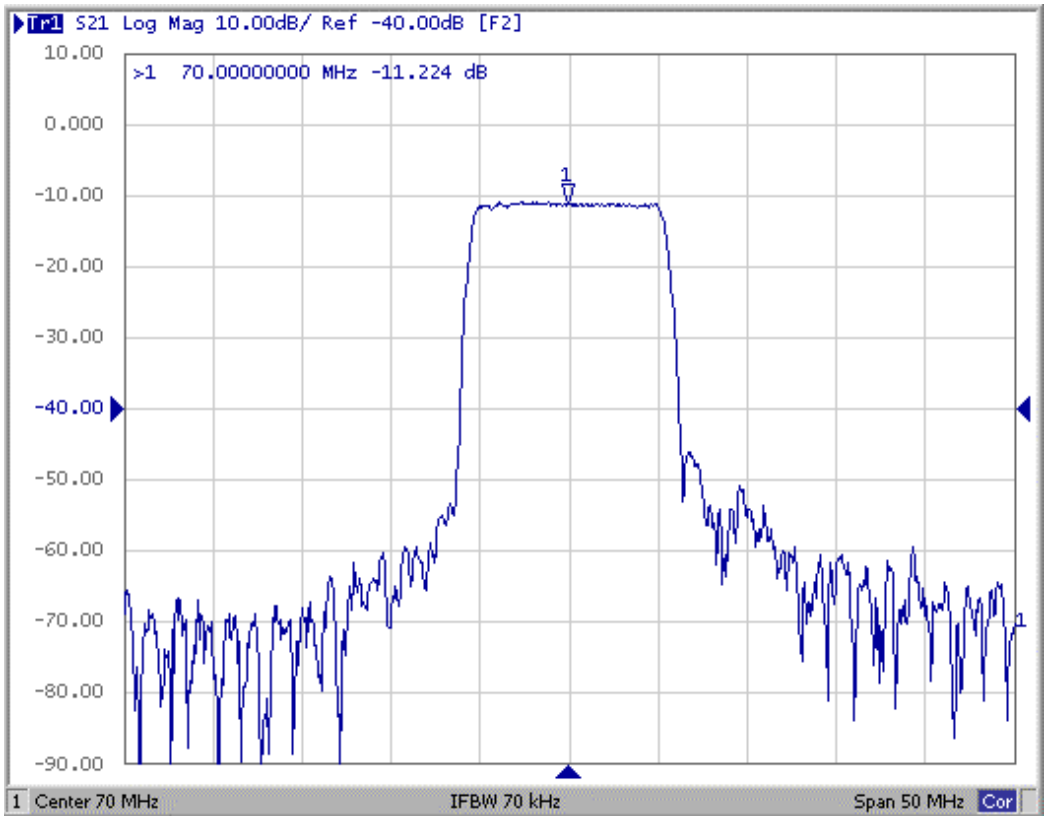


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

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

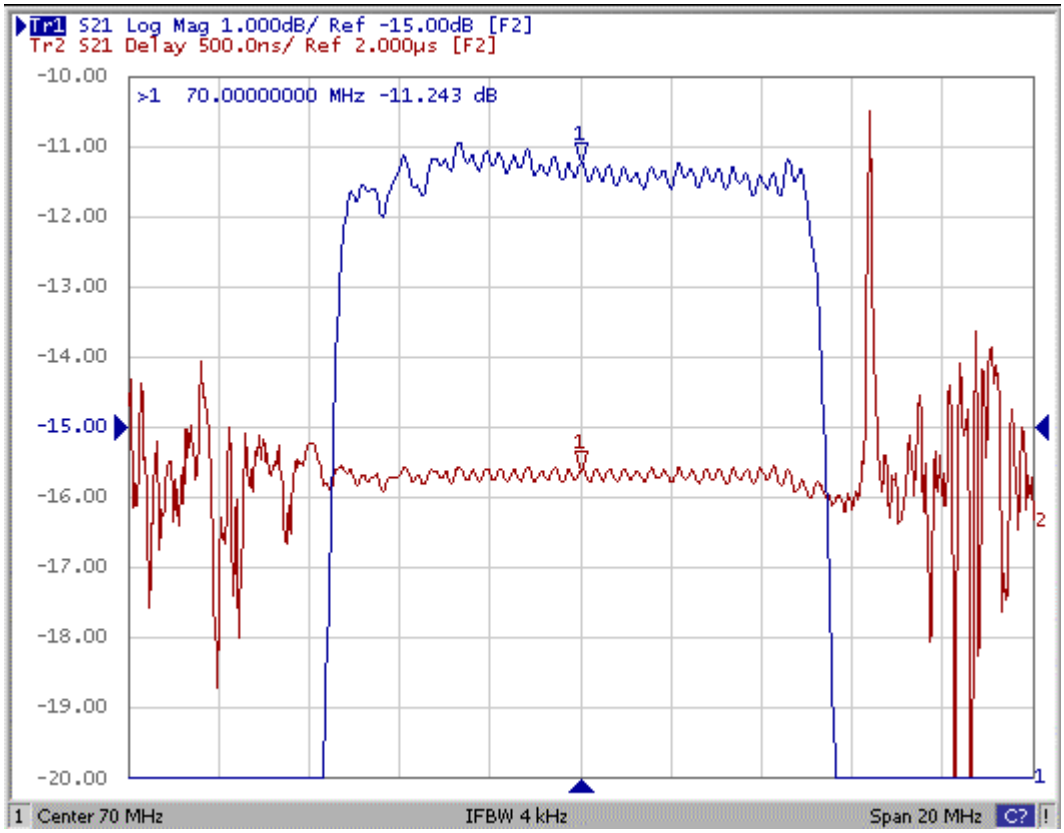
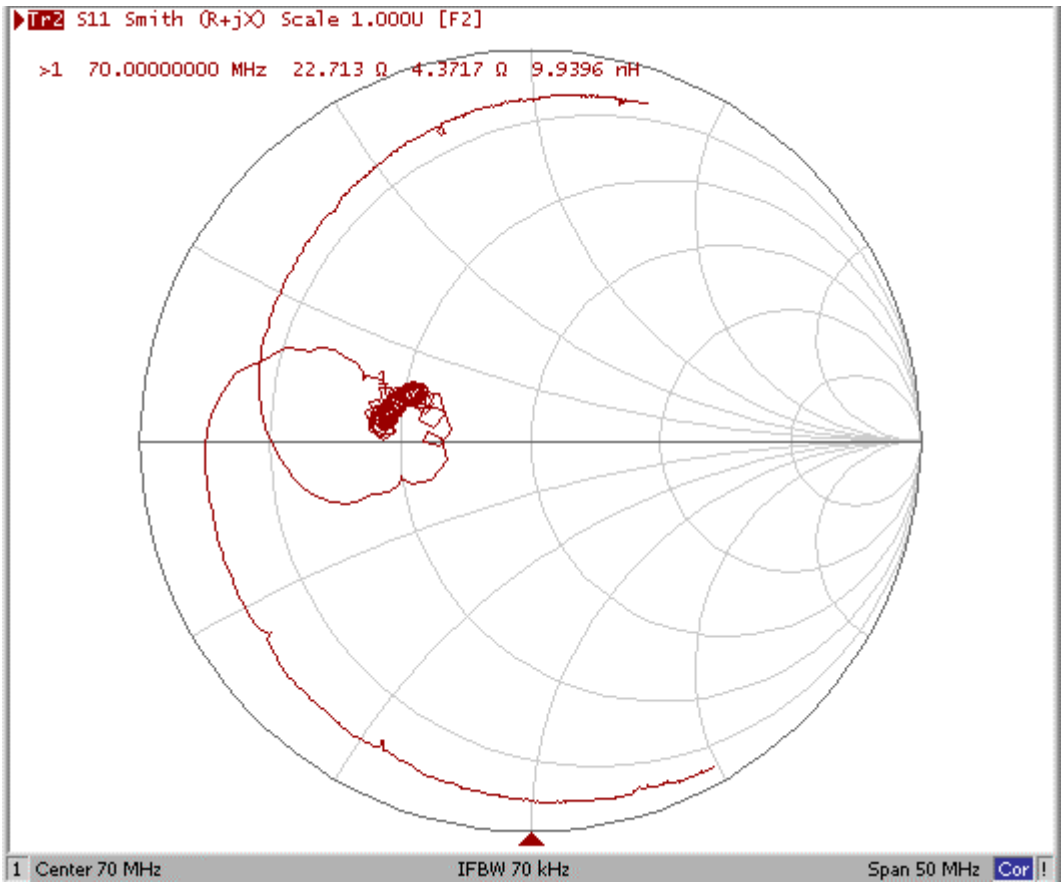
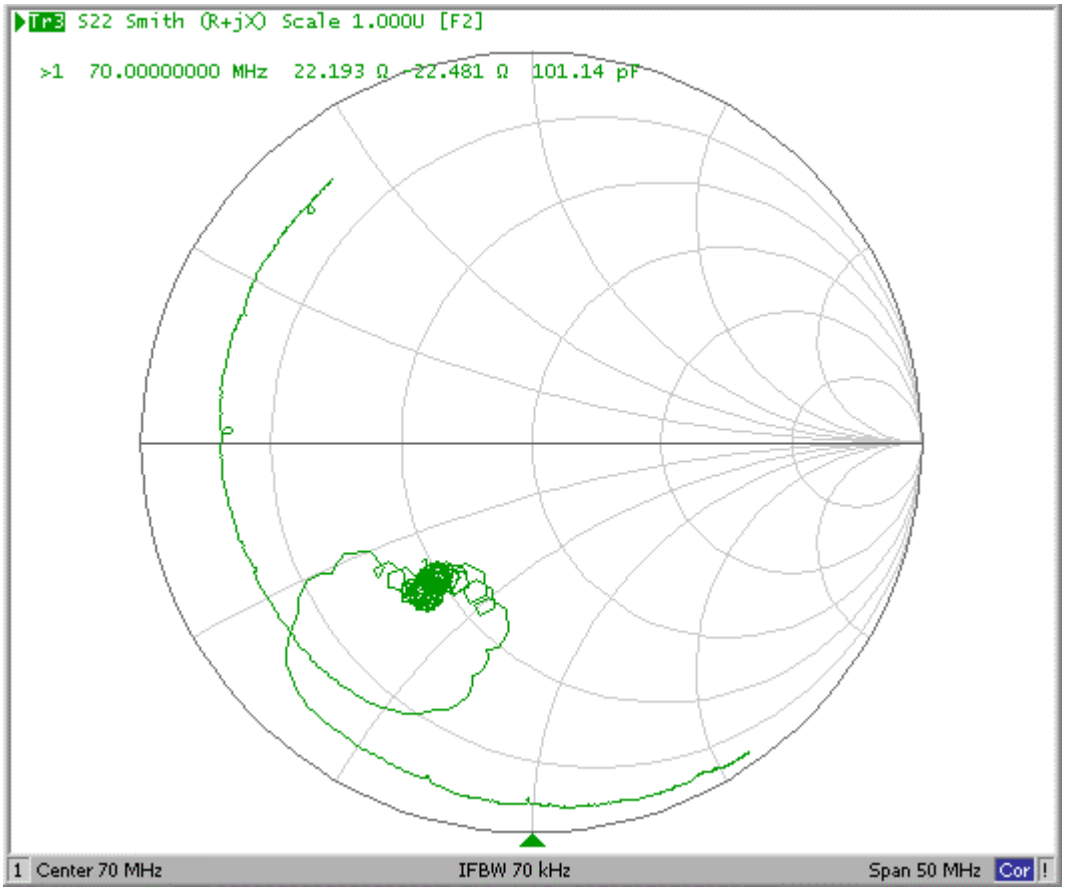


Fig2. Horizontal: 2MHz/Div Vertical: 500nec/Div

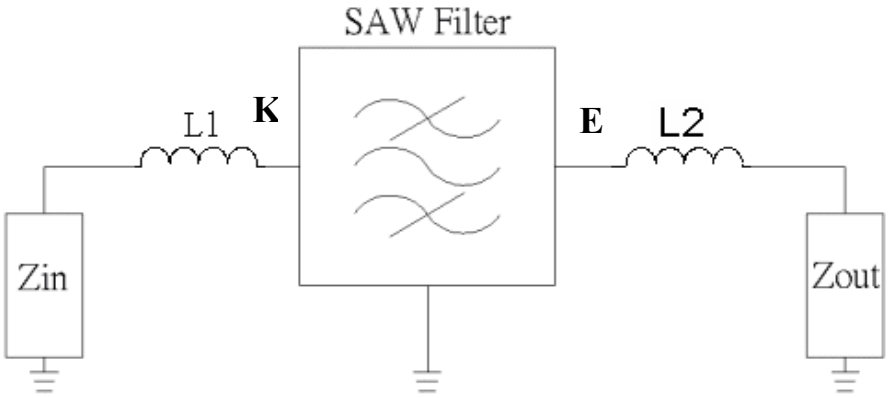
3. S11 Smith Chart: (span : 50MHz)



4. S22 Smith Chart (span : 50MHz)

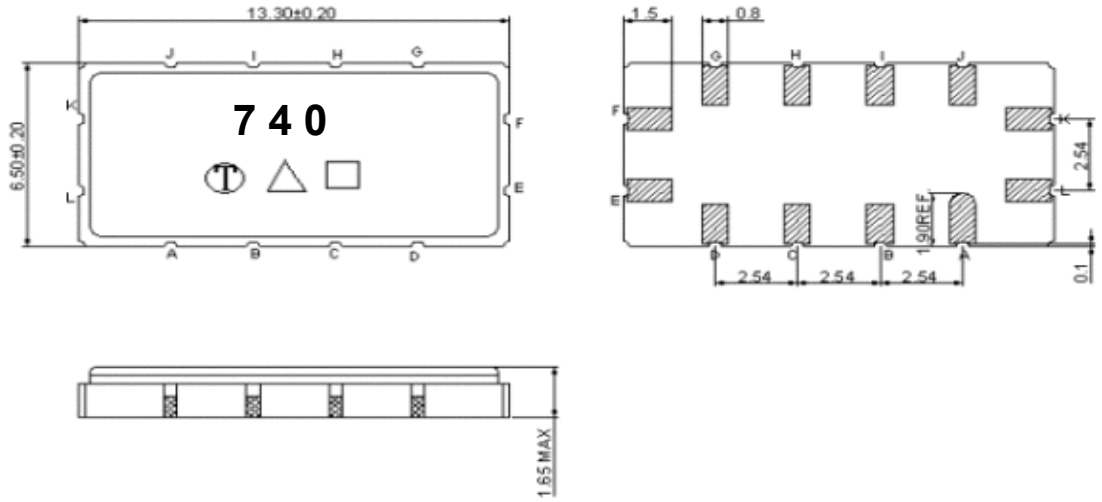


D. Measurement Circuit:



Zin and Zout are 50Ω.
L1= 220nH, L2= 150nH

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

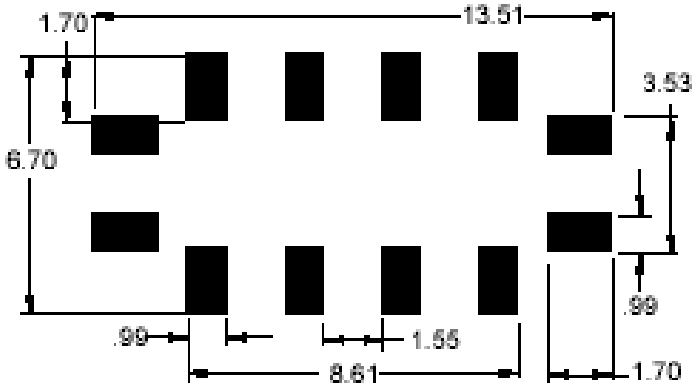
□ : Week Code (Follow the table from planner each year)

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

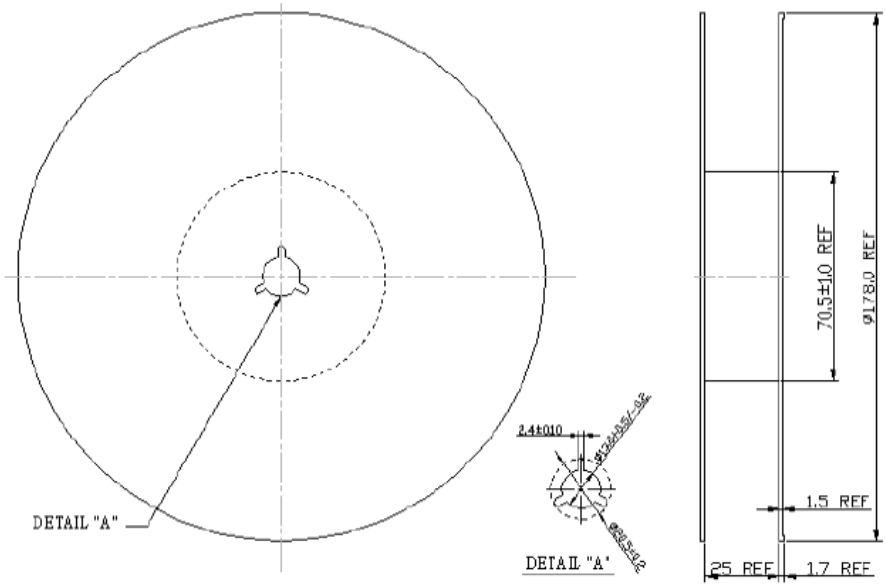
F. PCB Footprint:



Unit: mm

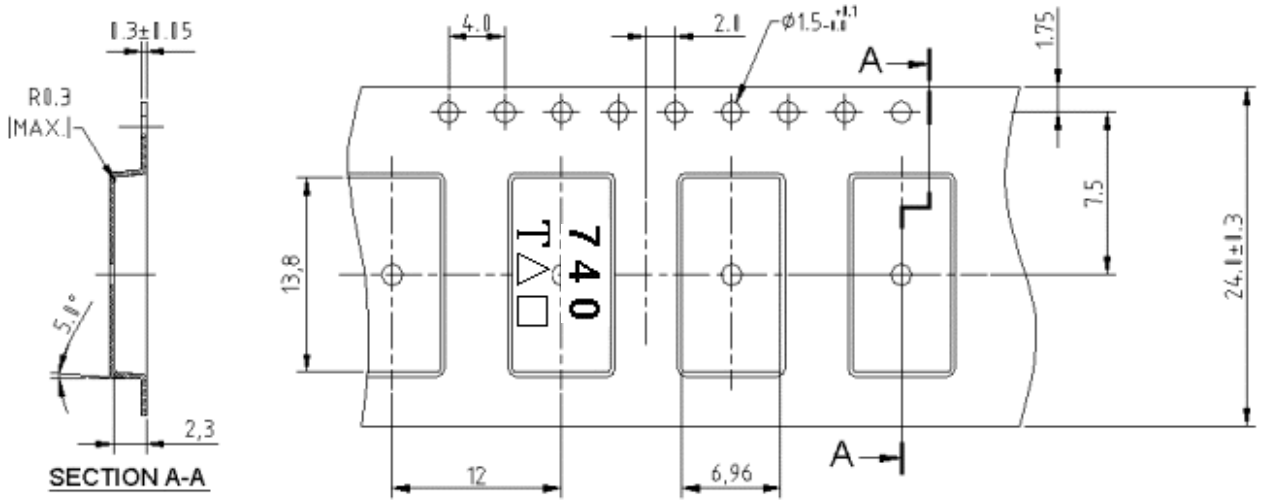
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE :