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

Product Specifications Approval Sheet

Product Description: SAW Filter 153.6MHz SMD 13.3×6.5mm

TST Part No.: TB0774A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Ricky Lee Ricky

Approved by: Francis Chen

Date: 2009/07/21

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.

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IF SAW Filter 153.6MHz(BW=36MHz) SMD 13.3X6.5mm

MODEL NO.: TB0774A REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +85 °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	-	153.6	-	-
Maximum Insertion loss I.L.	dB	-	11.3	13.0	-
1dB Bandwidth	MHz	32.0	36.8	-	-
3dB Bandwidth	MHz	34.0	39.0	-	-
35dB Bandwidth	MHz	-	47.0	48.0	-
Passband Ripple (within Fc+/-16MMHz)	dB	-	0.6	1.0	-
Group Delay Ripple (within Fc+/-16MMHz)	nS	-	55	150	-
Absolute Group Delay	uS	-	0.46	-	-
Temp Coefficient	ppm/° C	-	-93	-	-
Attenuation:(Reference level from minimum insertion loss)					
1) 10 MHz ~ 80 MHz	dB	35	68	-	-
2) 80 MHz ~100 MHz	dB	40	64	-	-
3) 100 MHz ~ 125 MHz	dB	35	52	-	-
4) 182 MHz ~ 200 MHz	dB	35	40	-	-
5) 200 MHz ~ 250 MHz	dB	35	43	-	-
6) 250 MHz ~ 600 MHz	dB	25	32	-	-

C. Frequency Characteristics :

1. S21 Response: (span : 100MHz)

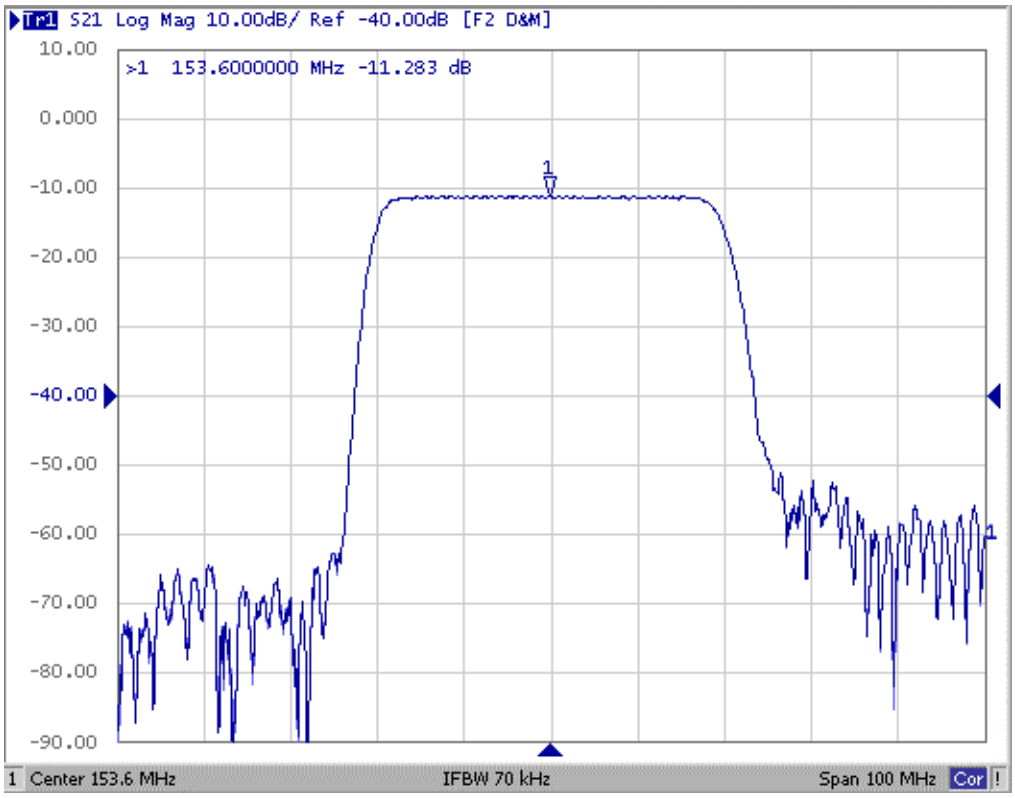


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 60MHz)

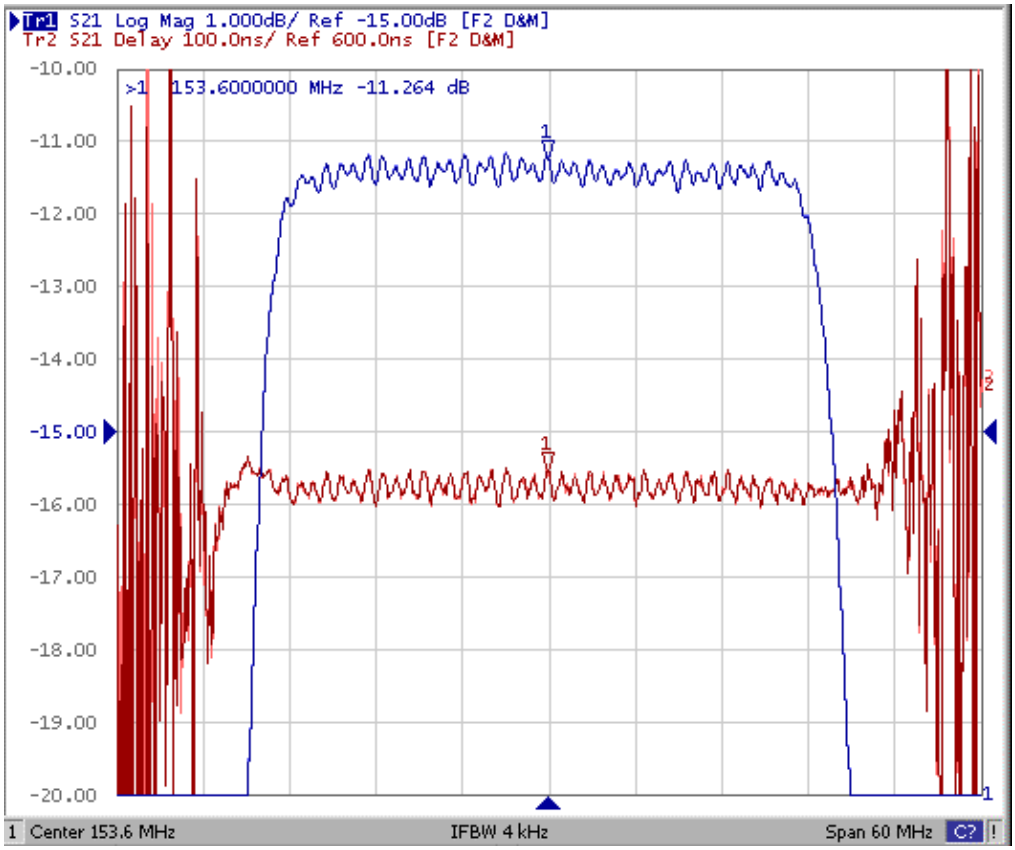
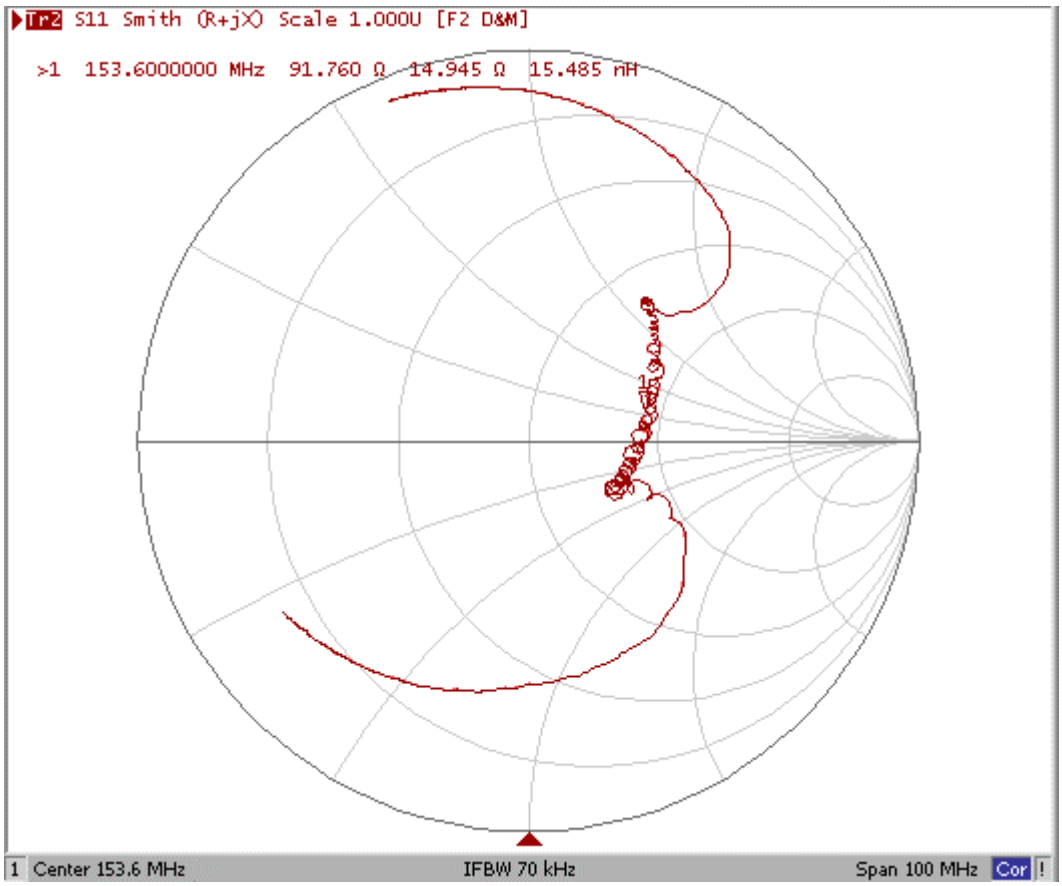
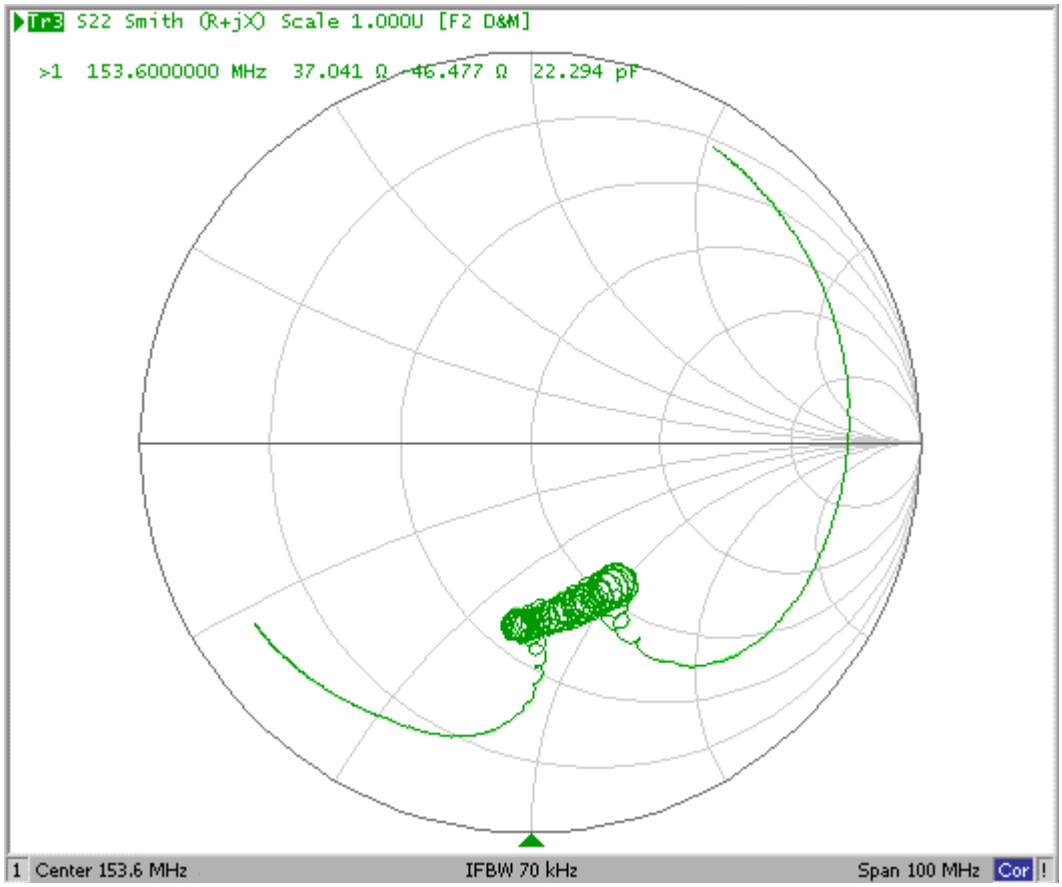


Fig2. Horizontal: 6MHz/Div Vertical: 100nec/Div

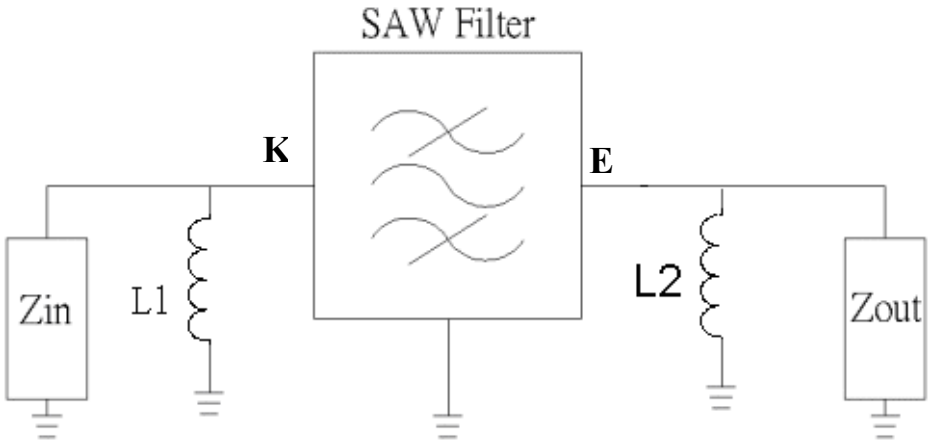
3. S11 Smith Chart: (span : 100MHz)



4. S22 Smith Chart (span : 100MHz)



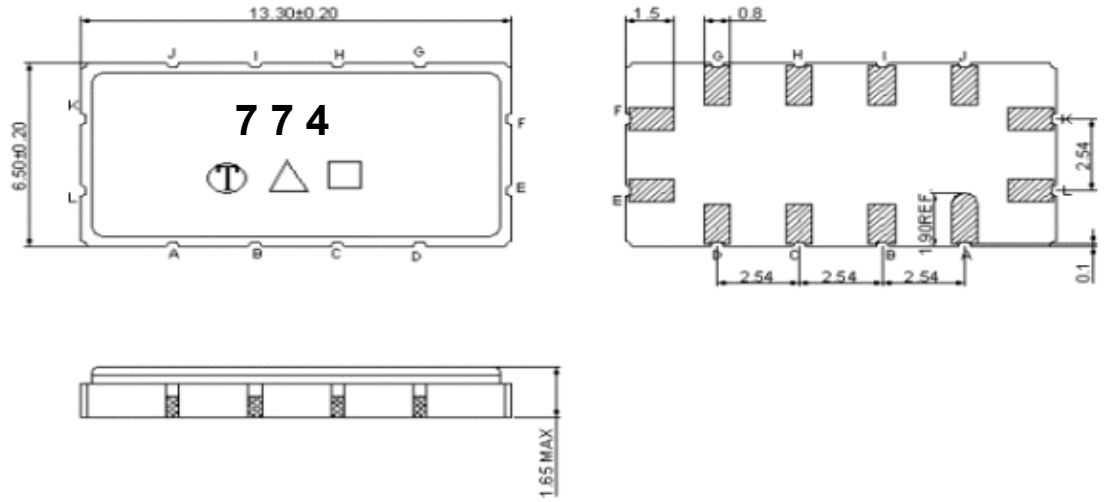
D. Measurement Circuit:



Zin and Zout are 50Ω.

L1=27nH, L2=47nH

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

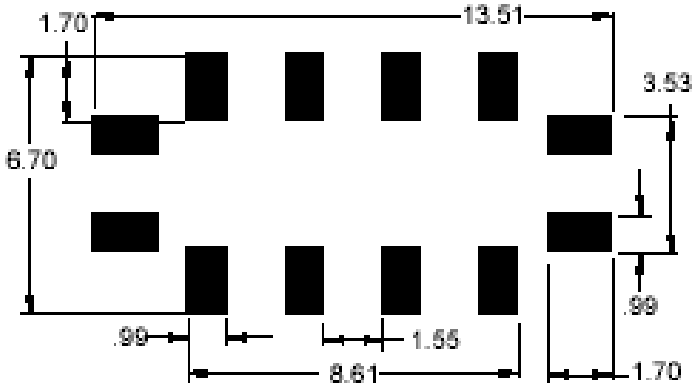
□ : Week Code (Follow the table from planner each year)

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

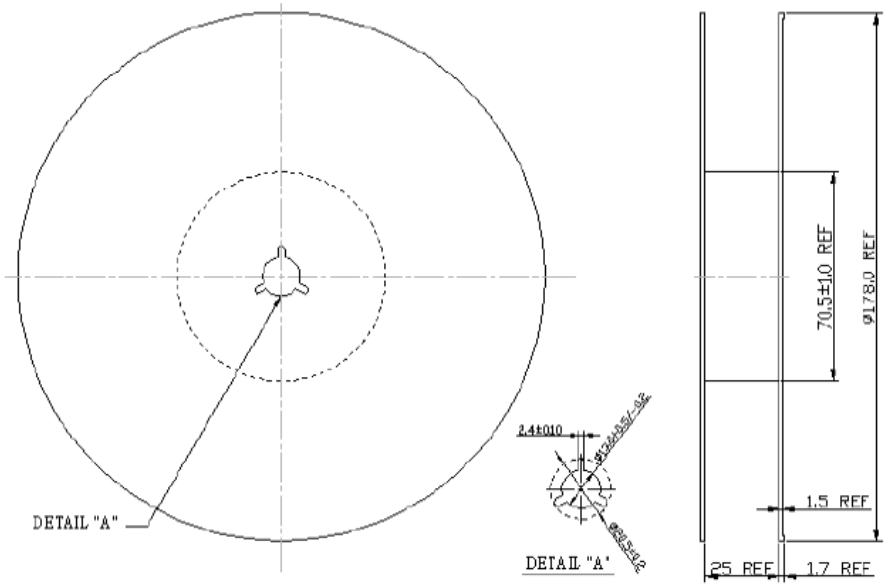
F. PCB Footprint:



Unit: mm

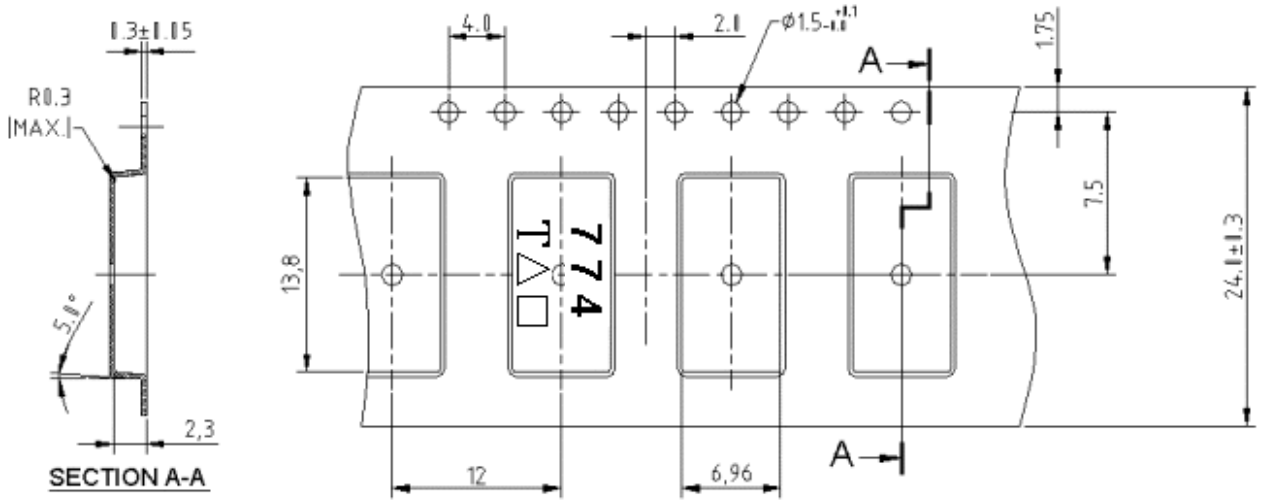
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE :