



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

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

TST Part No.: TB0773A

Customer Part No.: _____

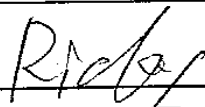
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Ricky Lee 

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=24MHz) SMD 13.3X6.5mm

MODEL NO.: TB0773A

REV.1.0

A. MAXIMUM RATING:

1. Operating Temperature: -40 °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	-	153.6	-	-
Maximum Insertion loss	I.L. dB	-	11	12	-
1dB Bandwidth	MHz	24.0	25.7	-	-
3dB Bandwidth	MHz	25.0	27.6	-	-
35dB Bandwidth	MHz	-	35.2	37	-
Passband Ripple (within Fc+/-12MMHz)	dB	-	0.9	1.2	-
Group Delay Ripple (within Fc+/-12MMHz)	nS	-	73	150	-
Absolute Group Delay	uS	-	0.95	-	-
Input VSWR (within Fc+/-12MHz)	dB	-	3.6	3.9	-
Output VSWR (within Fc+/-12MHz)	dB	-	2.4	3.0	-
Temp Coefficient	ppm/° C	-	-93	-	-
Attenuation:(Reference level from minimum insertion loss)					
1)	10 MHz~ 90 MHz dB	35	56	-	-
2)	90 MHz~120 MHz dB	40	48	-	-
3)	120 MHz ~ 130 MHz dB	35	52	-	-
4)	176 MHz ~ 190 MHz dB	35	44	-	-
5)	190 MHz ~ 250 MHz dB	40	44	-	-
6)	250 MHz ~800MHz dB	25	31	-	-

C. Frequency Characteristics :

1. S21 Response: (span : 80MHz)

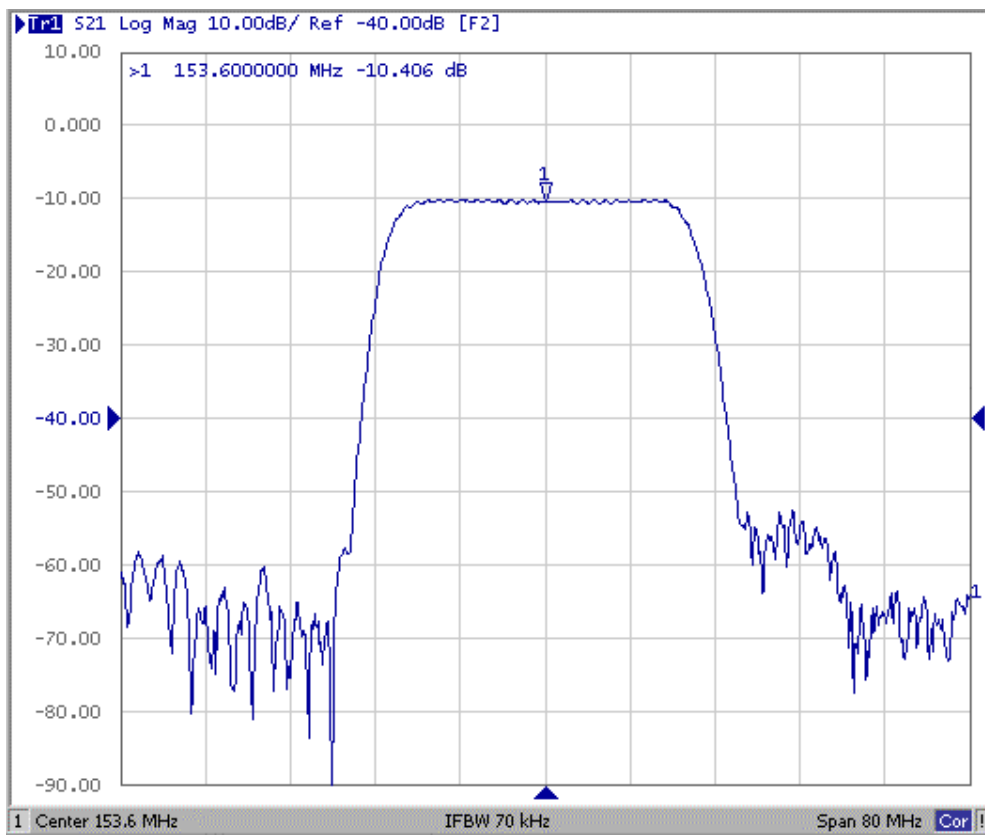


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

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

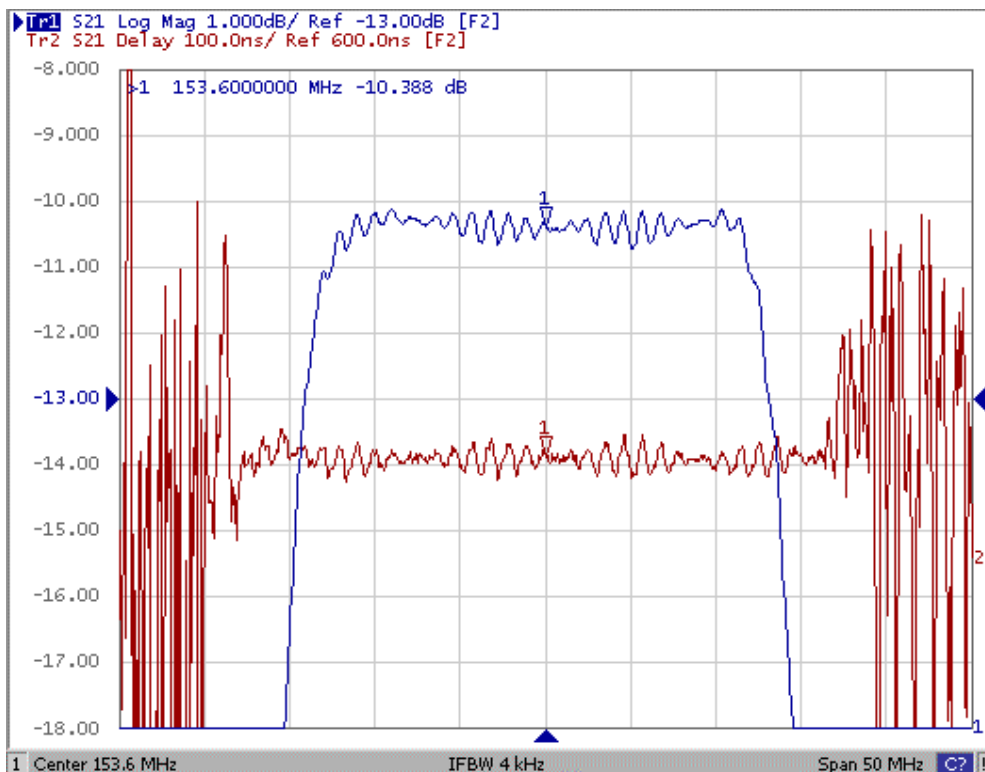
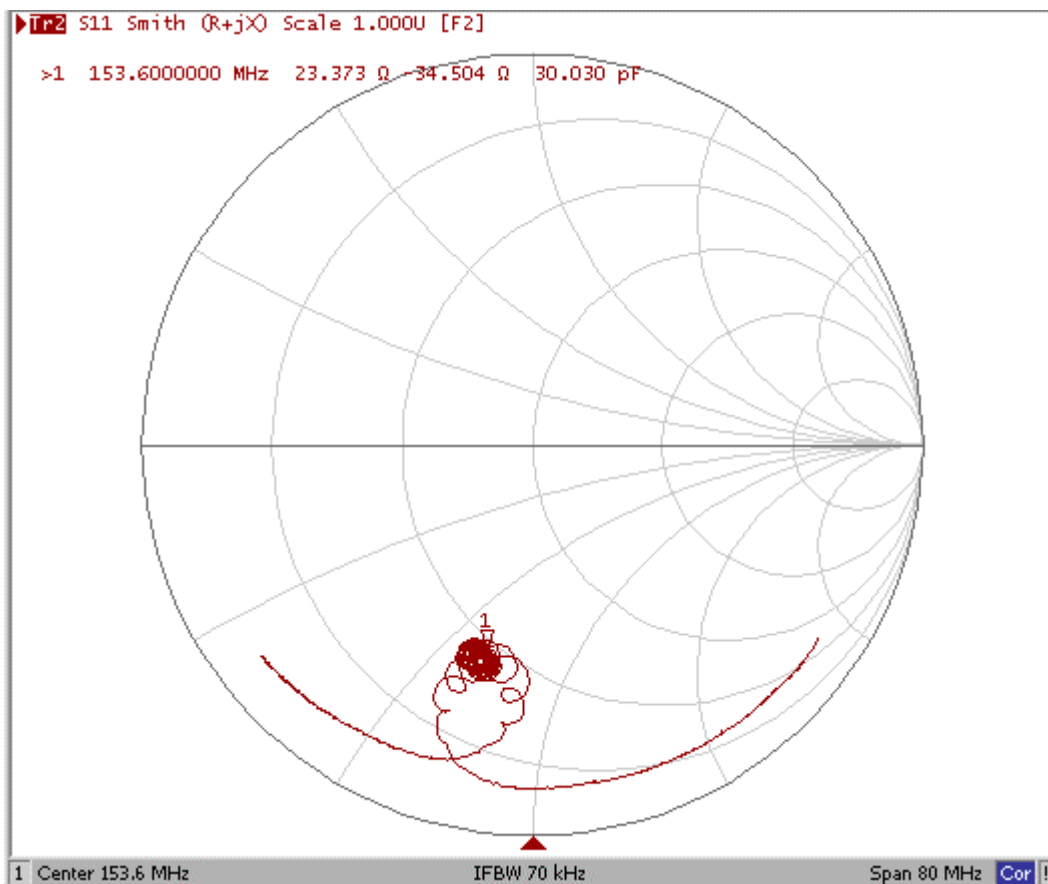
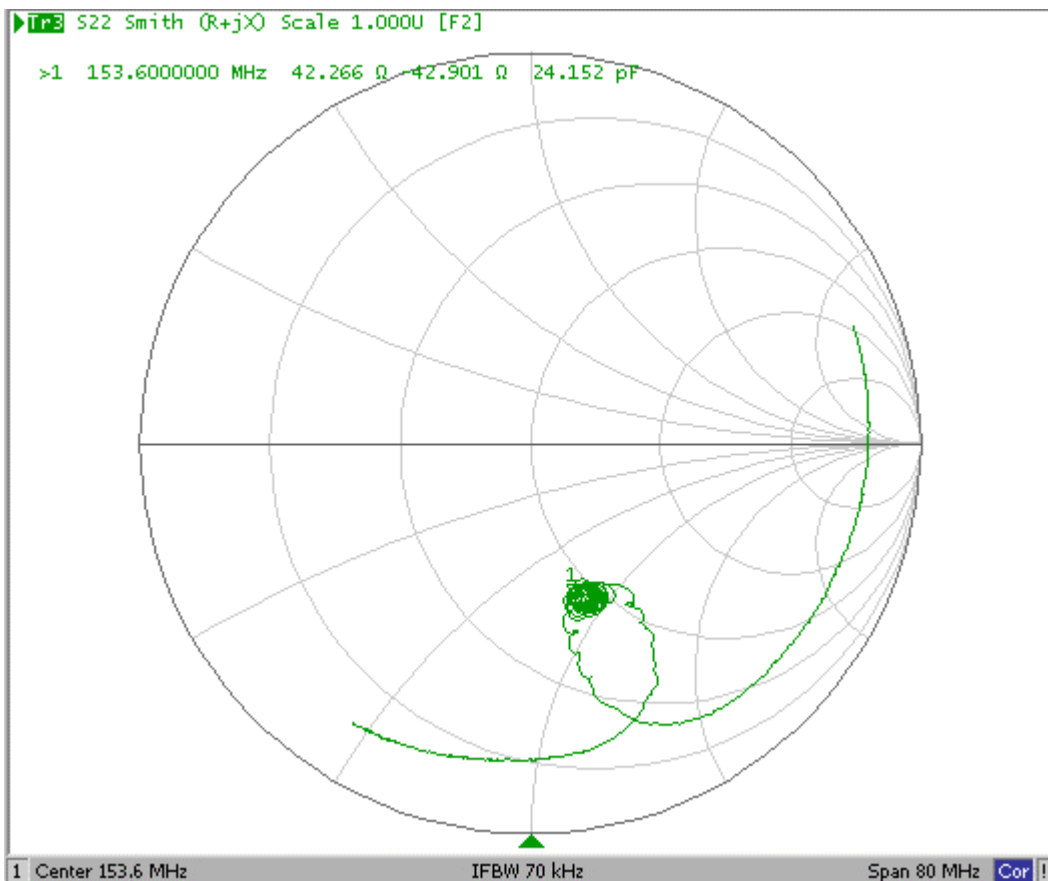


Fig2. Horizontal: 5MHz/Div Vertical: 100nec/Div

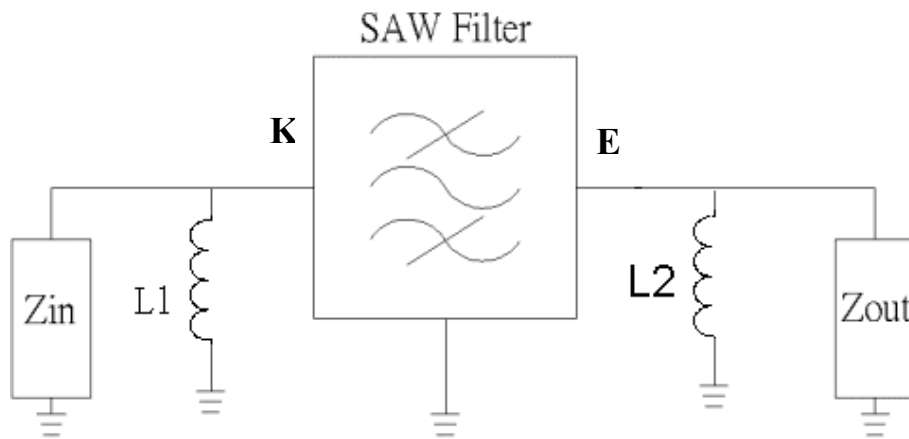
3. S11 Smith Chart: (span : 80MHz)



4. S22 Smith Chart (span : 80MHz)



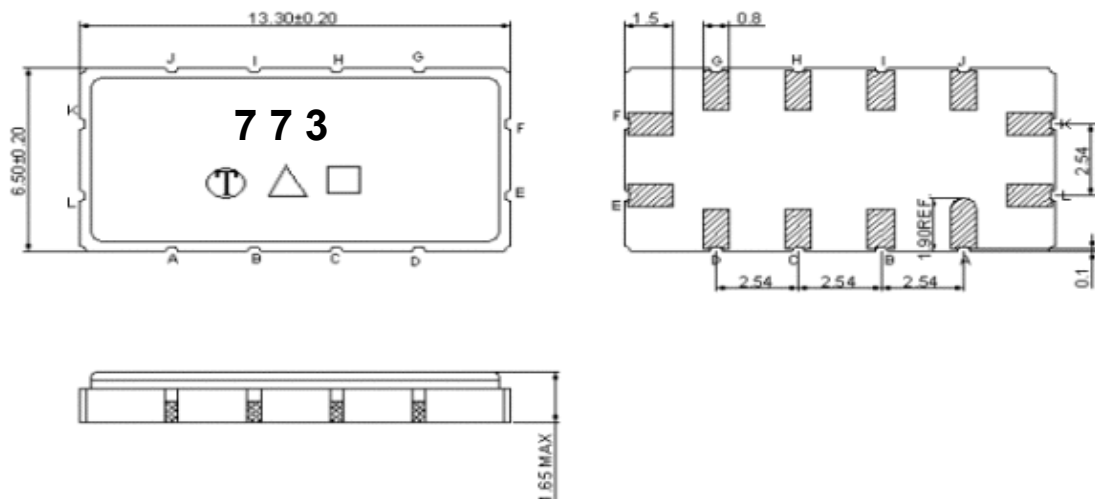
D. Measurement Circuit:



Zin and Zout are 50Ω .

$L1=82\text{nH}$, $L2=56\text{nH}$

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

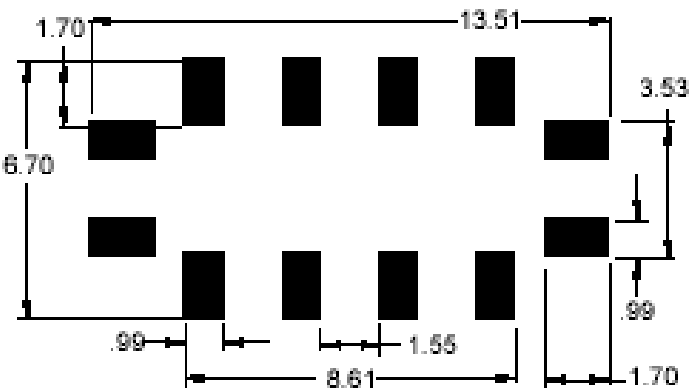
□ : Week Code (Follow the table from planner each year)

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	<u>B</u>	<u>b</u>

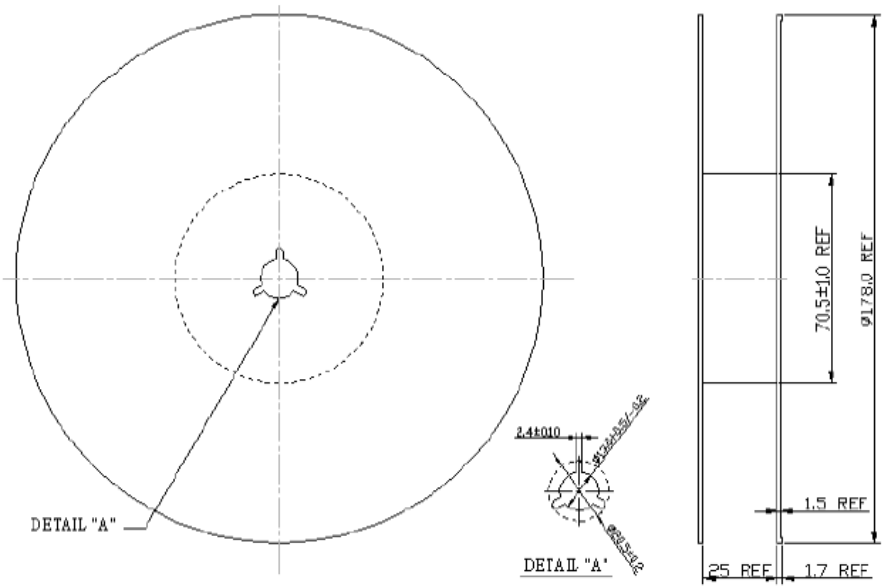
F. PCB Footprint:



Unit: mm

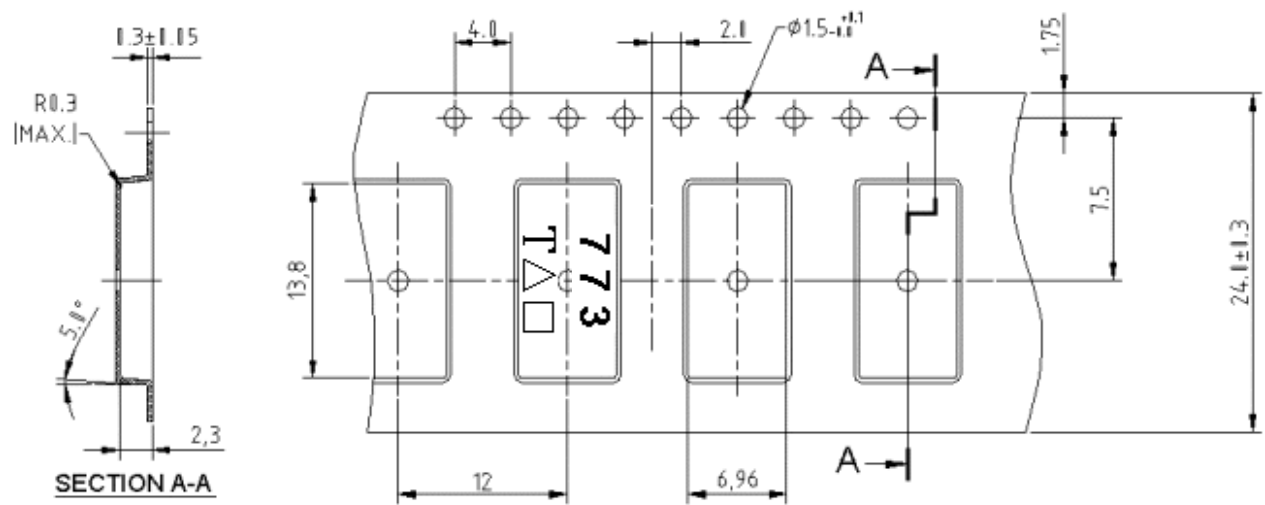
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_:

