

SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Description: SAW Filter 456MHz SMD 5.0×7.0mm

TST Part No.: TB0574A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Ricky Lee *Ricky*

Approved by: _____ Francis Chen *Francis Chen*

Date: _____ 2009/11/23

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 153.6MHz(BW=20MHz) SMD 5.0X7.0mm

MODEL NO.: TB0772A

REV.3.0

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

Item		Min.	Typical	Max.
Center frequency Fc	MHz	-	456.0	-
Insertion loss at Fc	dB	-	12.6	13.5
Bandwidth at -1.0dB	MHz	6.4	6.8	-
Bandwidth at -3.0dB	MHz	-	8.0	-
Amplitude Ripple (Fc ± 3.2 MHz)	dB	-	0.7	1.0
Group Delay Ripple (Fc ± 3.2 MHz)	nS	-	80	250
Attenuation (Reference level from minimum Insertion loss)				
DC ~ 256 MHz	dBc	30	64	-
256 ~ 360 MHz	dBc	45	64	-
360 ~ 416 MHz	dBc	45	55	-
416 ~ 445.1 MHz	dBc	38	43	-
445.1 ~ 466.9 MHz	dBc	35	46	-
466.9 ~ 496 MHz	dBc	40	54	-
496 ~ 656 MHz	dBc	30	60	-
656 ~ 1000 MHz	dBc	-	-	-
Temp Coefficient	ppm/°C ²	-	-0.036	-

C. Frequency Characteristics :

1. S21 Response: (span : 50MHz)

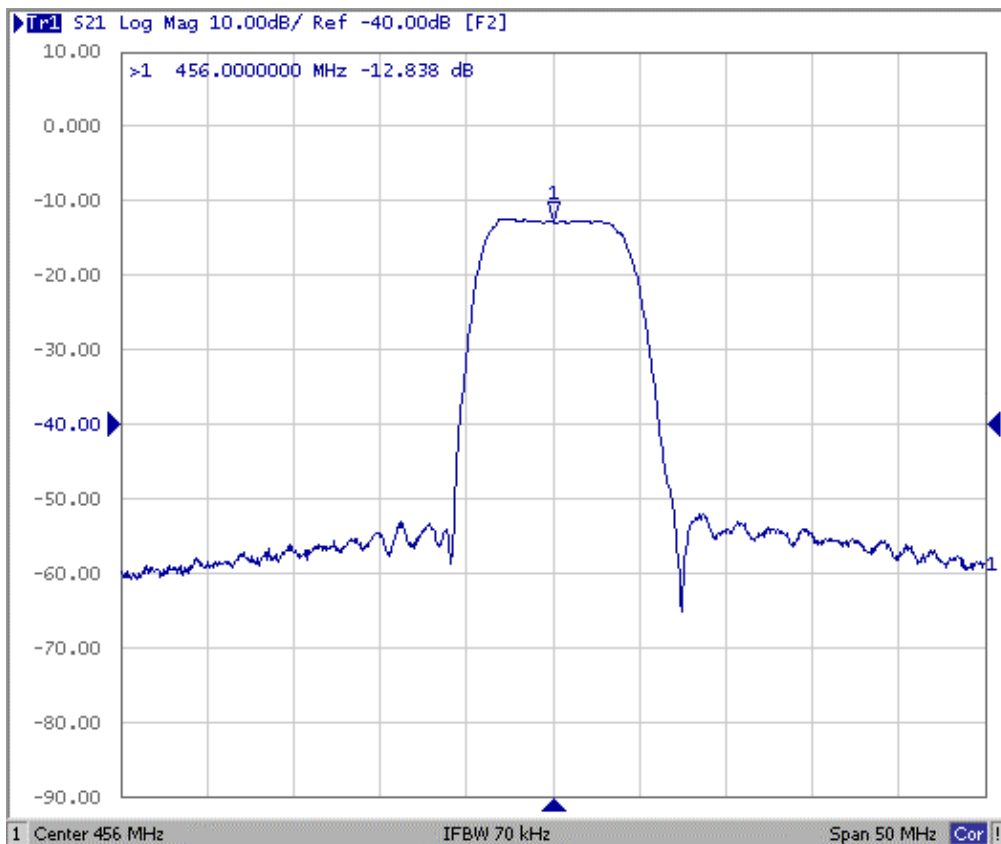


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 10MHz)

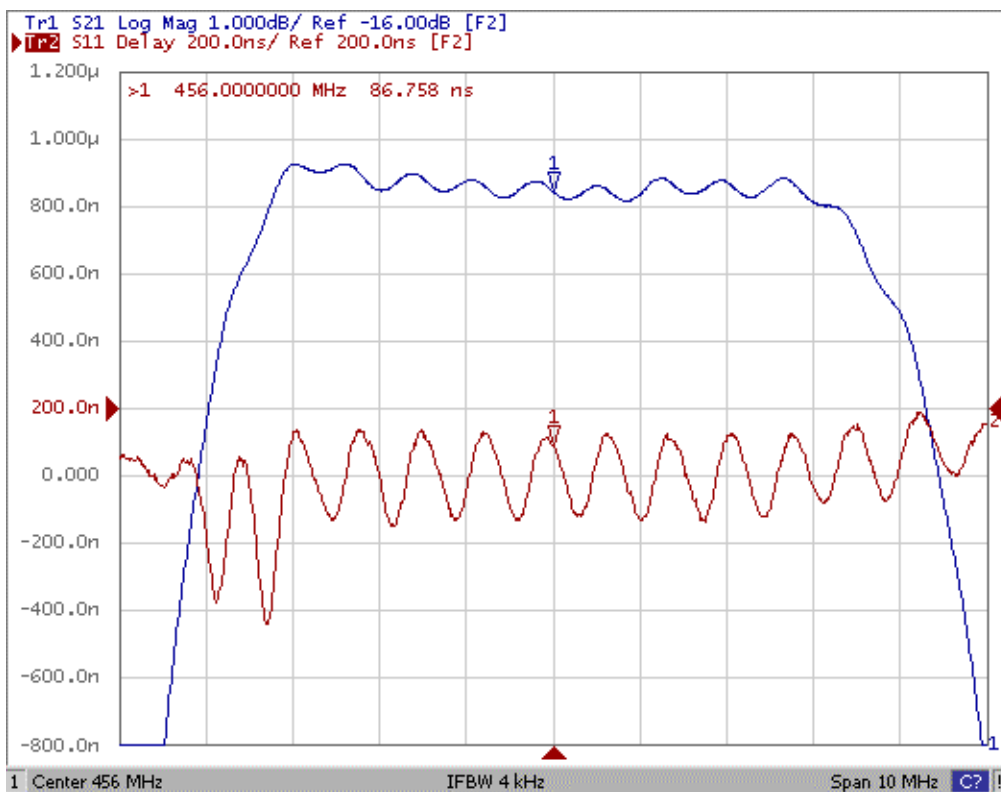
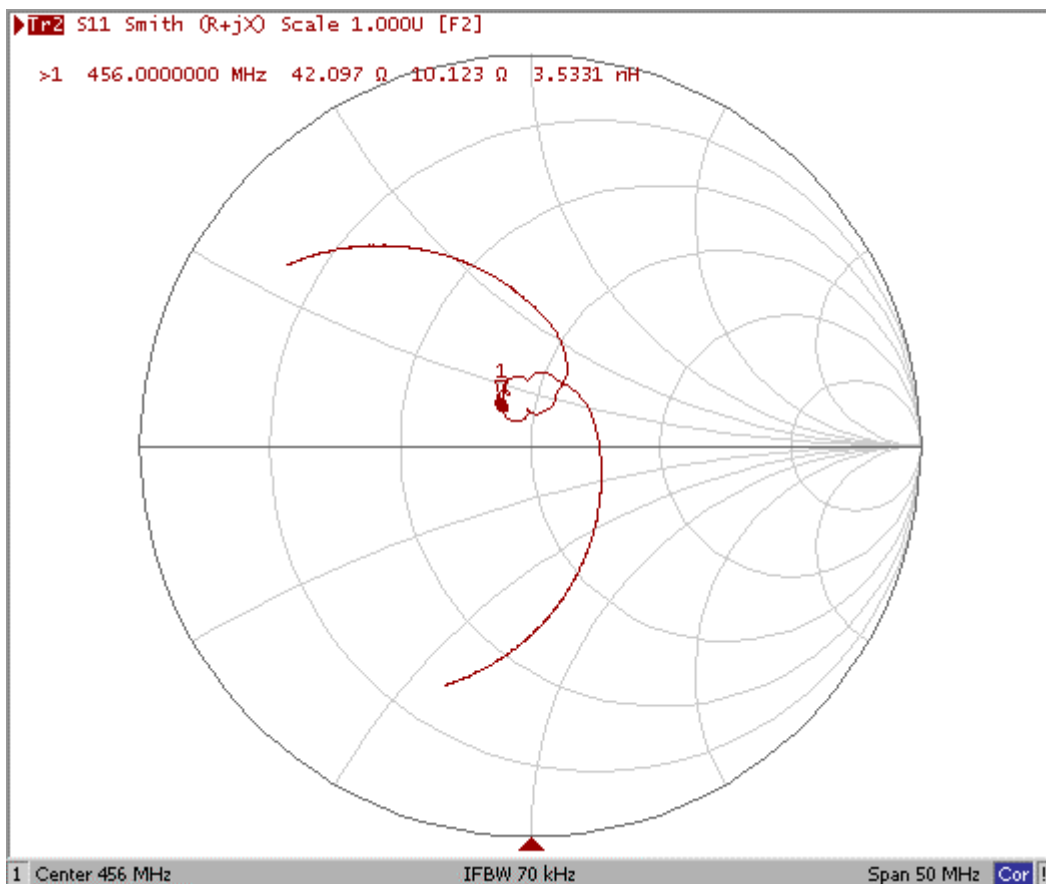
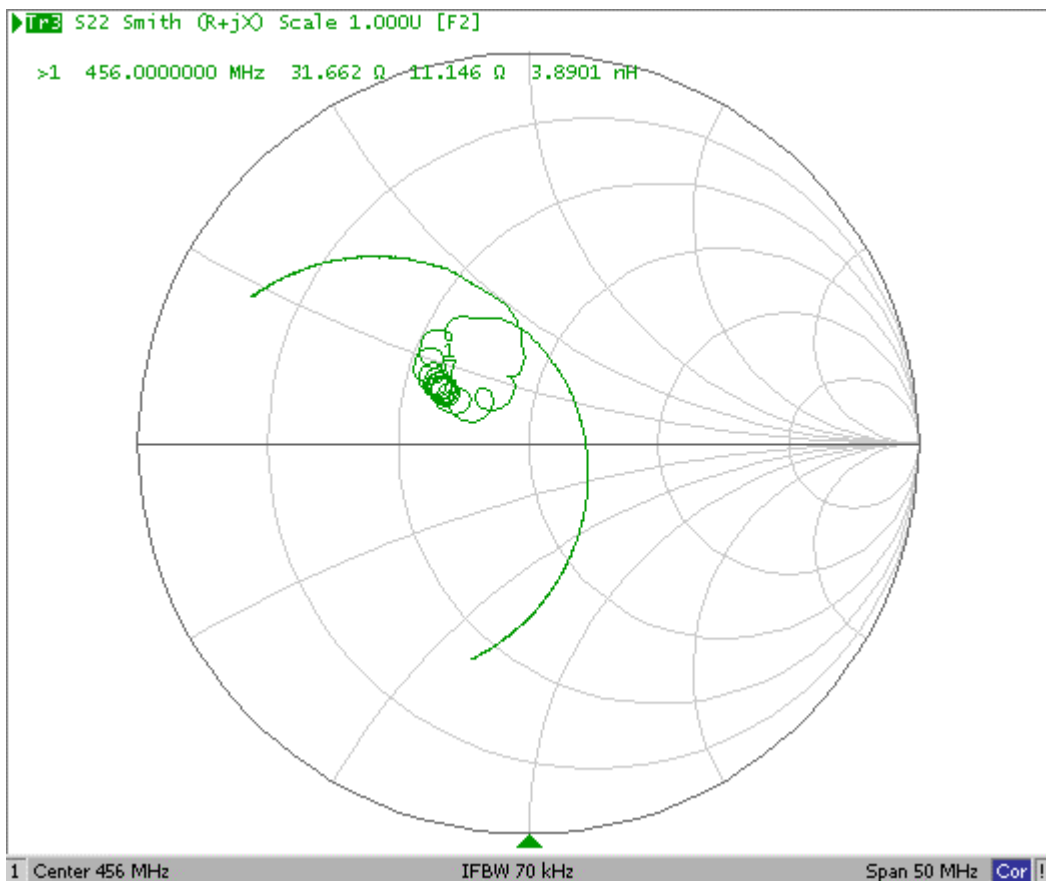


Fig2. Horizontal: 1MHz/Div Vertical: 200nec/Div

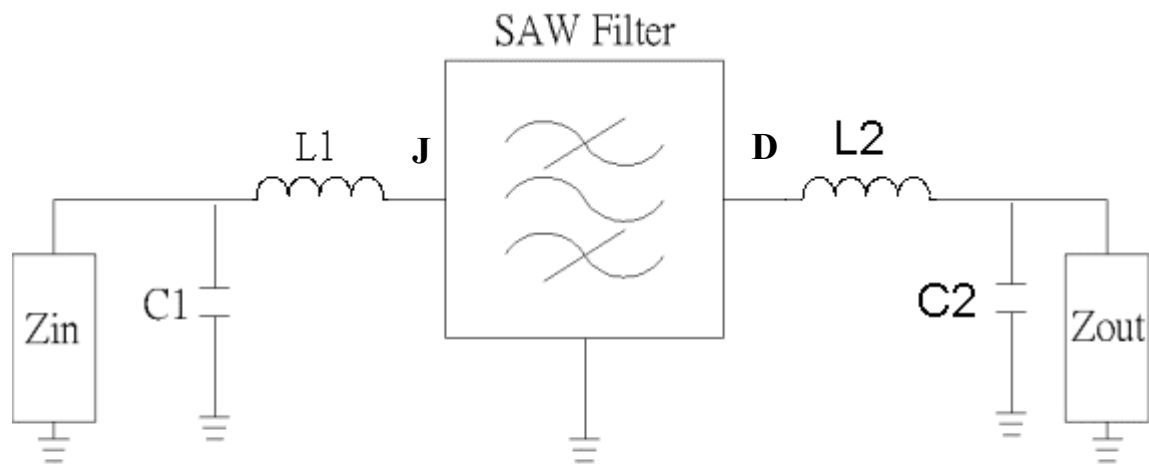
3. S11 Smith Chart: (span : 50MHz)



4. S22 Smith Chart (span : 50MHz)



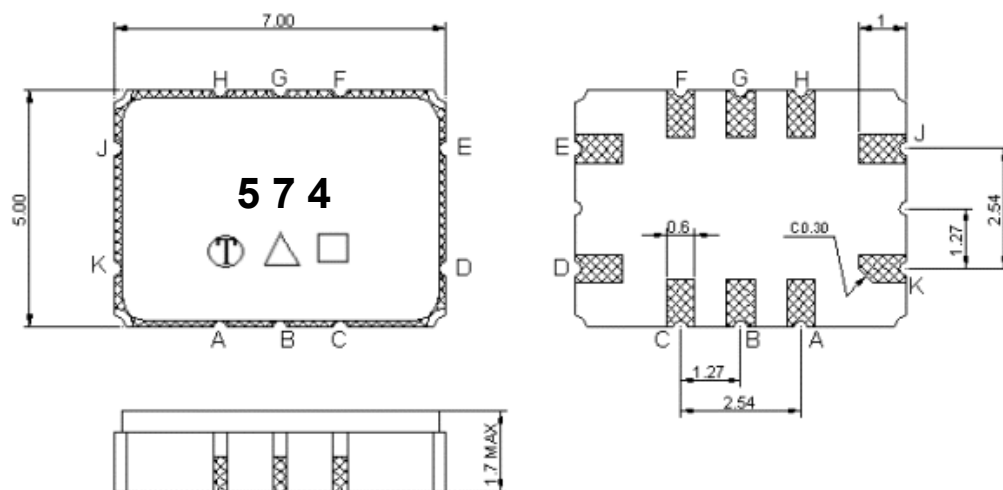
D. Measurement Circuit:



Zin and Zout are $50\ \Omega$.

L1=24nH, C1=15pF L2=27nH, C2=15pF

E. Outline Drawing:



Pin J: RF input

Pin D: RF output

Pin K,E: Case Ground

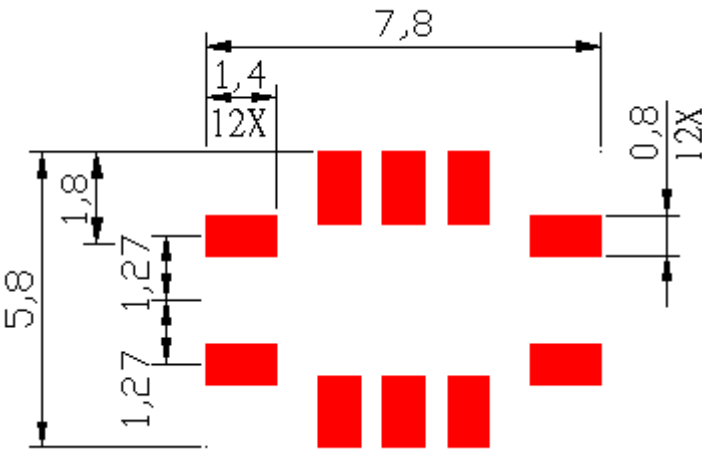
Pin A, B, C, F, G, H: Ground

□ : Week Code (W01->A,W02->B,...W27->a,...,W52->z)

△ : Product / Year Code Unit : mm

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

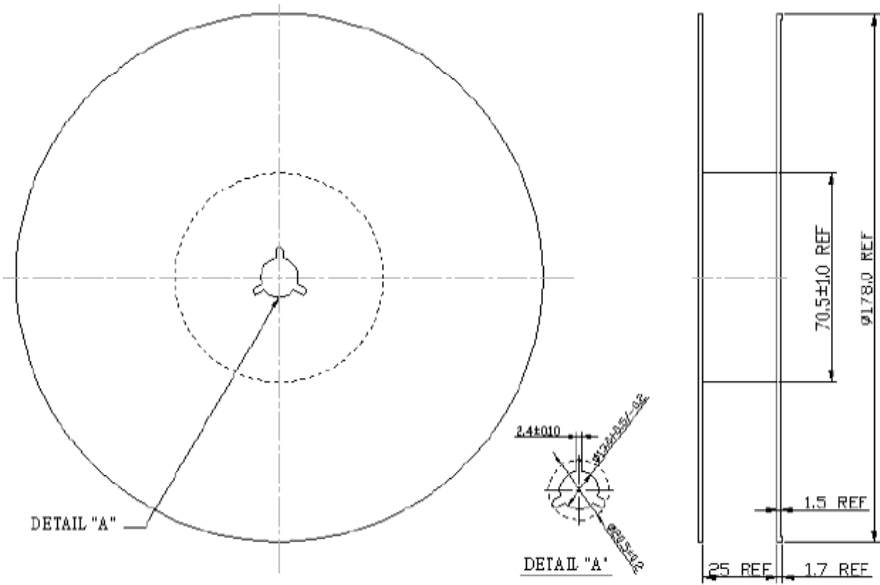
F. PCB Footprint:



Unit: mm

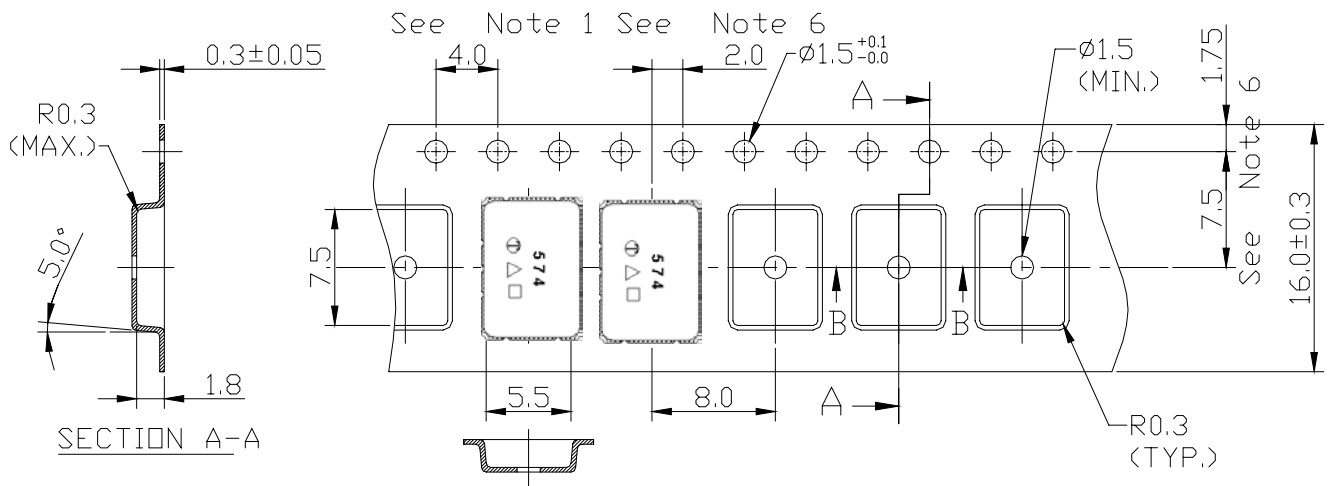
H. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

I. RECOMMENDED REFLOW PROFILE_ :

