



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 200.3MHz SMD 5.0×7.0mm

TST Part No.: TB0721A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Ricky Lee *Ricky*

Approved by: _____ Francis Chen *Francis*

Date: _____ 2009/07/29

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.

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

IF SAW Filter 200.3MHz(BW=27MHz) SMD 5.0X7.0mm

MODEL NO.: TB0721A

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	-	200.3	-	-
Minimum Insertion loss I.L.	dB	-	12.0	15.0	-
1dB BW	MHz	27	29.0	-	
45dB BW	MHz	-	37.0	38.0	
Passband Ripple ($F_c \pm 13.0\text{MHz}$)	dB	-	0.6	1.0	-
Attenuation (Reference to Minimum Insertion loss)					
10 ~ 162MHz	dB	50	55	-	-
162 ~ 181MHz	dB	40	45	-	-
220 ~ 238MHz	dB	38	39	-	-
238 ~ 520MHz	dB	45	48	-	-
Temp Coefficient	ppm/K	-	-94	-	-
Matching:					
1.The input of the filter will be matched to <u>50 ohm</u>					
2.The output of the filter will be matched to <u>50 ohm</u>					

C. Frequency Characteristics :

1. S21 Response: (span : 200MHz)

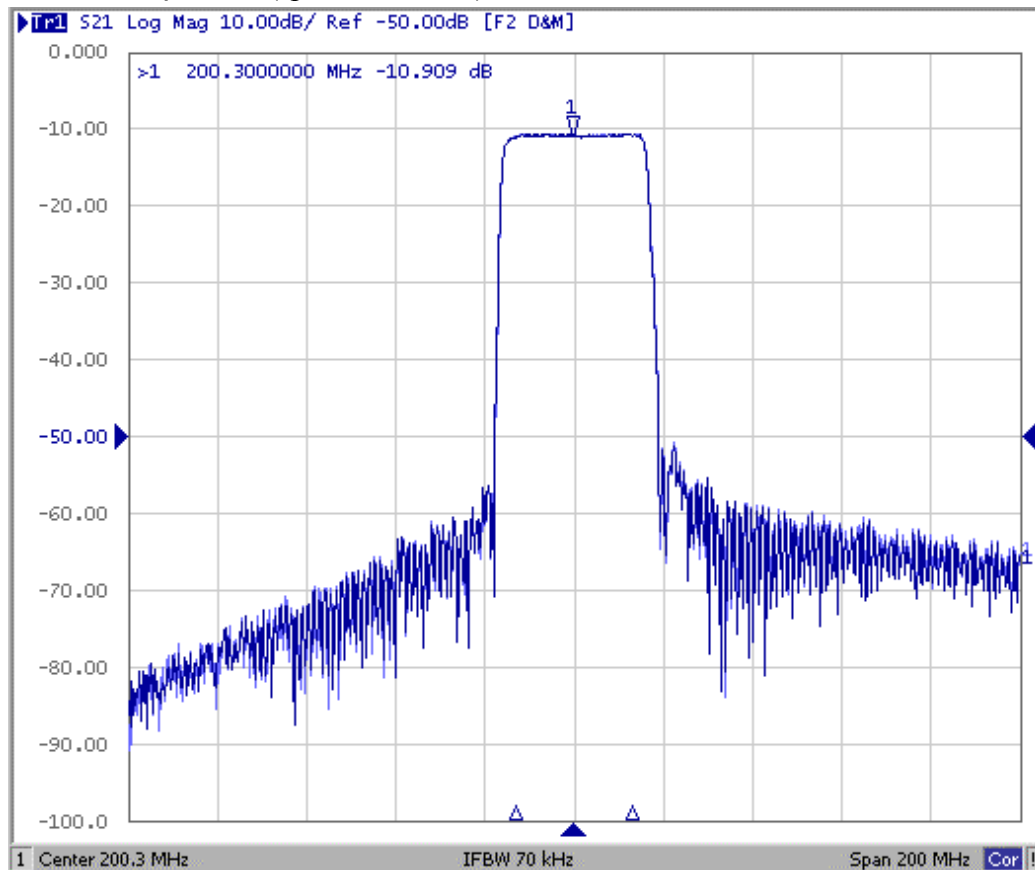


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Group-Delay Ripple: (span : 40MHz)

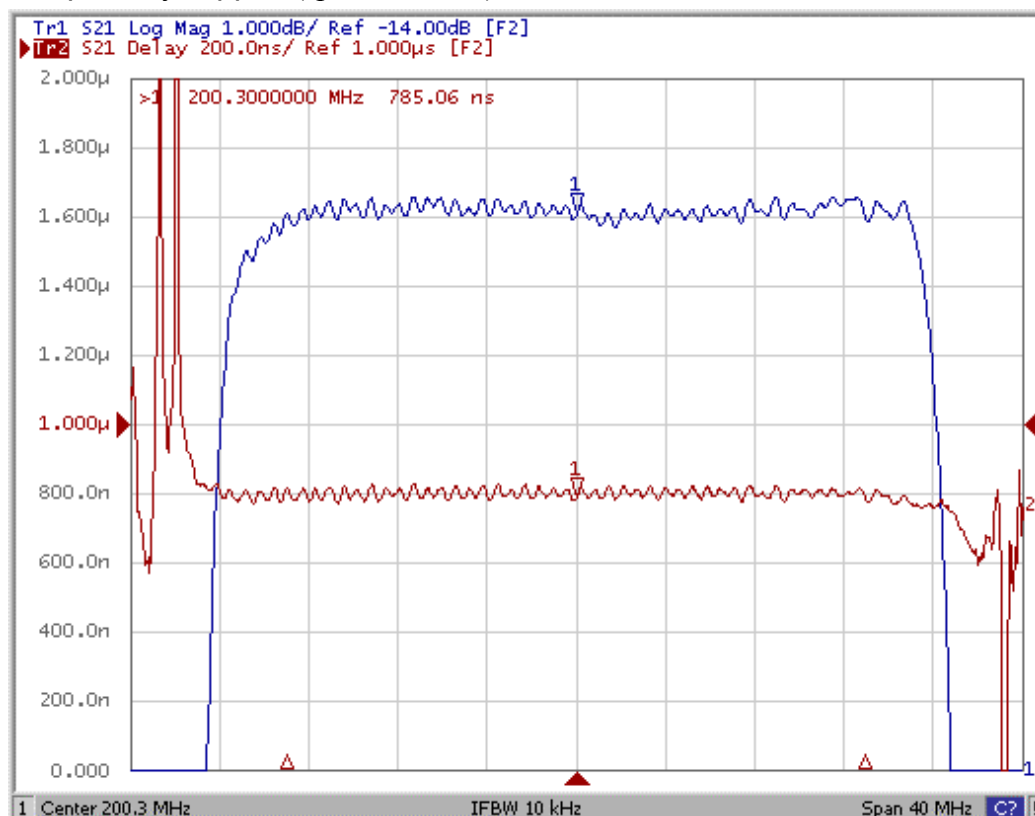
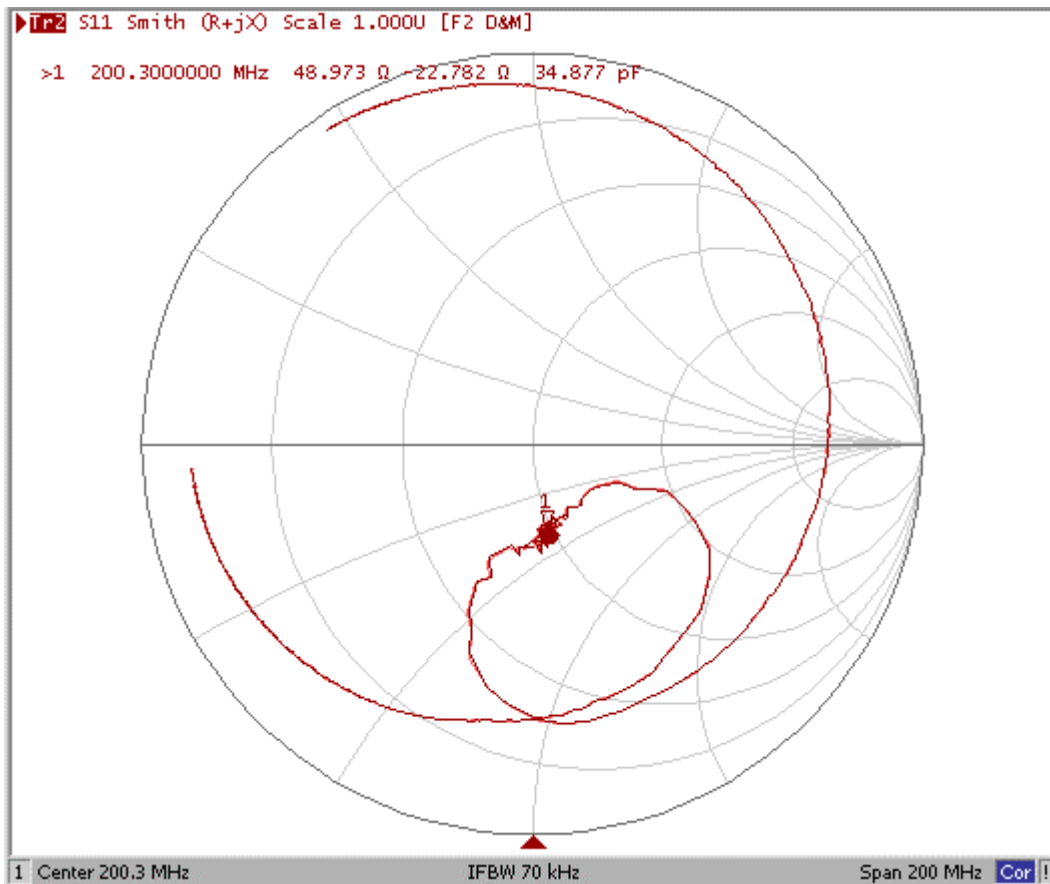
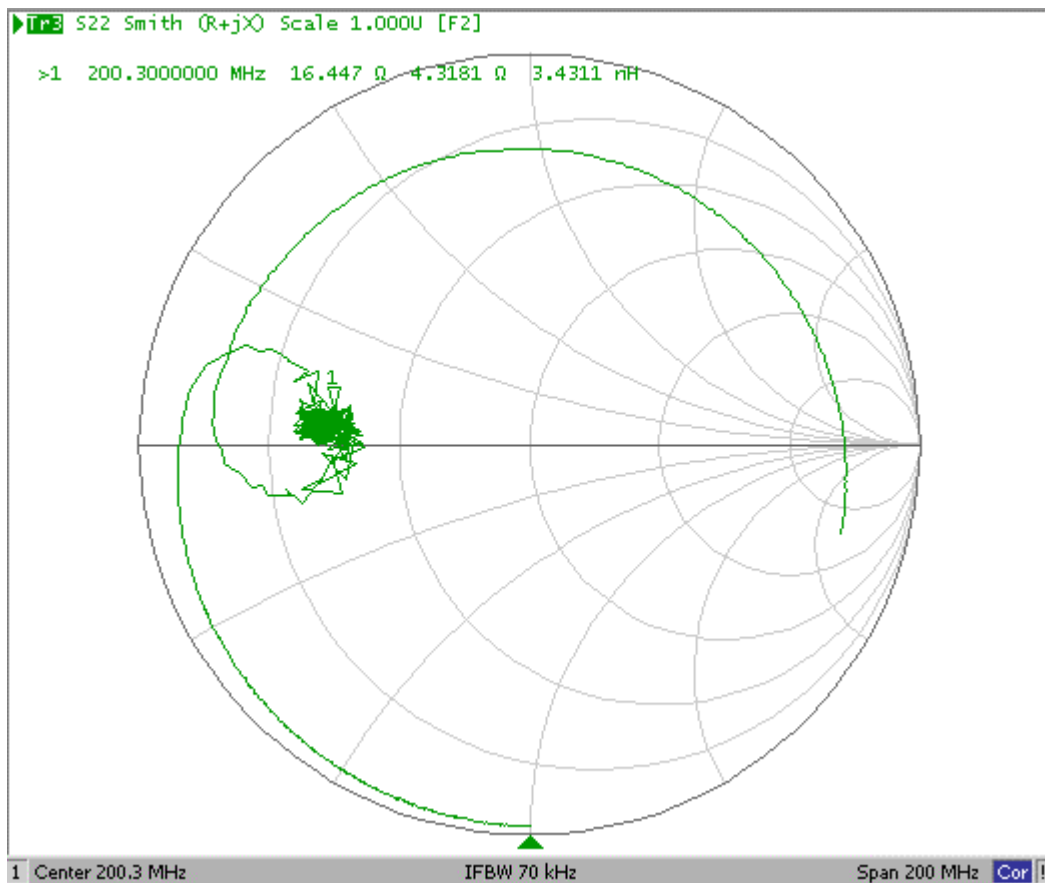


Fig2. Horizontal: 4MHz/Div Vertical: 200nec/Div

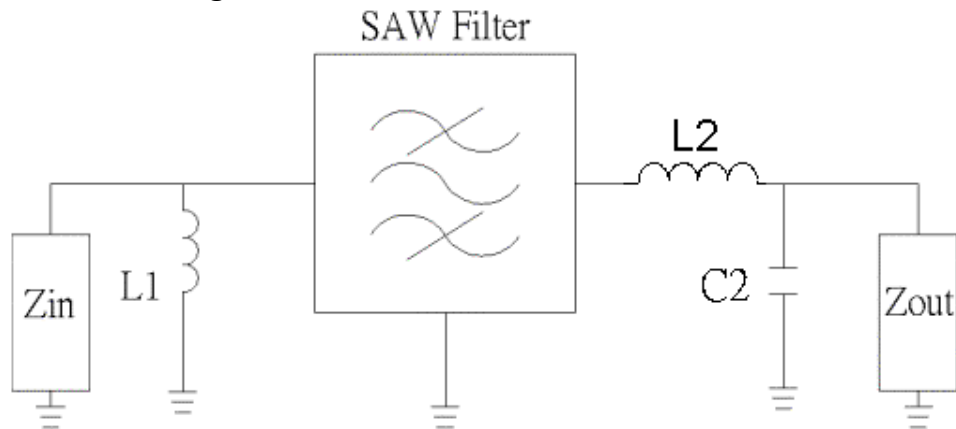
3. S11 Smith Chart: (span : 200MHz)



4. S22 Smith Chart (span : 200MHz)



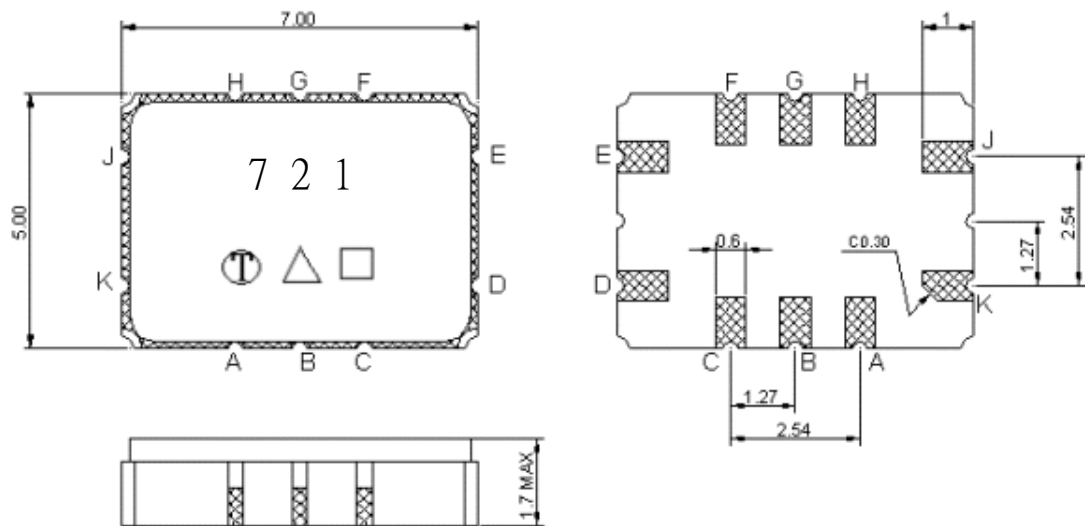
D. Outline Drawing:



Zin and Zout are 50 Ω .

L1= 27 nH, L2= 47 nH, C2=10 pF

E. Outline Drawing:



Pin J: RF input

Pin D: RF output

Pin K,E: Case Ground

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

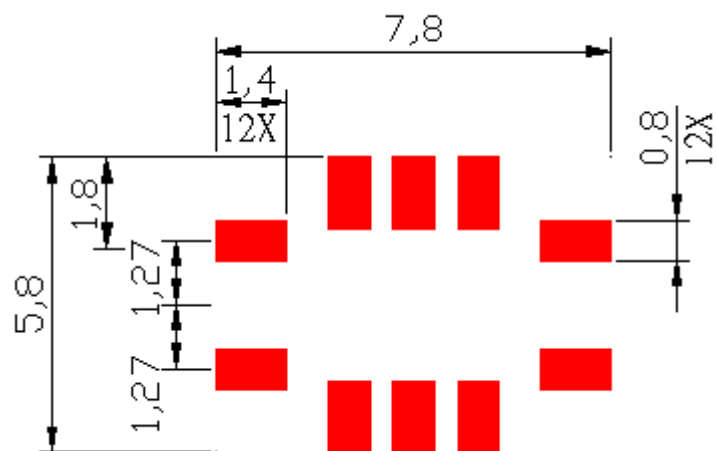
□ : Week Code (W01->A,W02->B,...W27->a,...,W52->z)

Unit : mm

△ : Product / Year Code

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

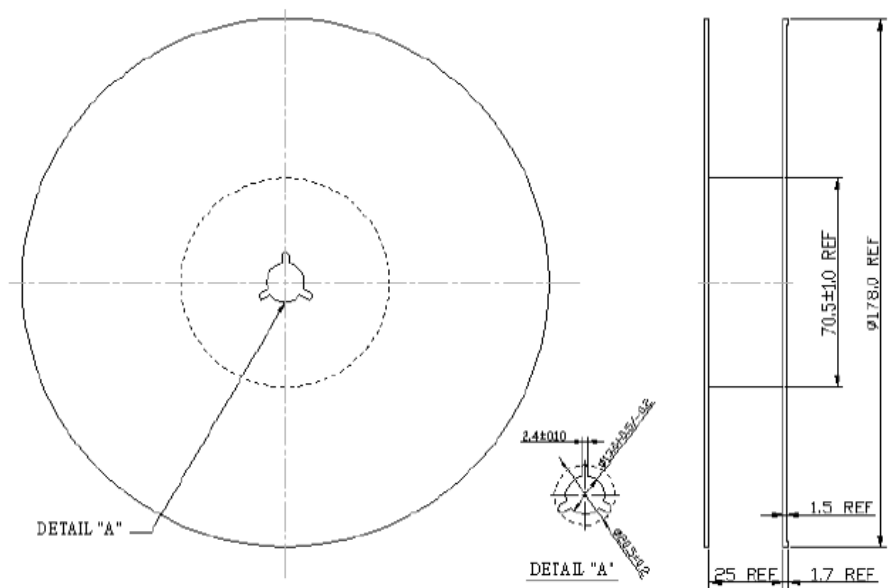
F. PCB Footprint:



Unit: mm

H. PACKING:

1. REEL DIMENSION



Unit: mm

[illegible]

I. RECOMMENDED REFLOW PROFILE:

