



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Product Specifications Approval Sheet

Product Description: SAW Filter 261.12MHz SMD 13.3x6.5mm

TST Part No.: TB0204A

Customer Part No.: \_\_\_\_\_

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

Checked by: Ricky Lee *Ricky Lee*

Approved by: Francis Chen *Francis Chen*

Date: 2009/09/11

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 261.12MHz(BW=5MHz) SMD 13.3X6.5mm

MODEL NO.: TB0204A

REV.2.0

### A. MAXIMUM RATING:

1. Operating Temperature: -30 °C ~ +85 °C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input power: 10dBm



### B. Characteristics :

Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency $F_C$ MHz	-	261.12	-	-
Minimum Insertion loss I.L. dB	-	11.5	12	-
Lower 1 dB Bandedge MHz	-	258.6	259.2	-
Upper 1 dB Bandedge MHz	263.04	263.5	-	-
Lower 15 dB Bandedge MHz	257.12	257.7	-	-
Upper 15 dB Bandedge MHz		264.5	265.12	
Phase Linearity (259.2~263.04MHz)(rms) deg	-	1.8	4	-
Attenuation: (Reference level from minimum insertion loss)				dB
1) 161.12 MHz~241.12 MHz dB	43	48	-	-
2) 241.12 MHz~253.12 MHz dB	43	47	-	-
3) 269.12 MHz~281.12 MHz dB	43	47	-	-
4) 281.12 MHz~361.12 MHz dB	43	50	-	-
Substrate Material		LiTaO <sub>3</sub>		

### C. Frequency Characteristics :

#### 1. S21 Response: (span : 50MHz)

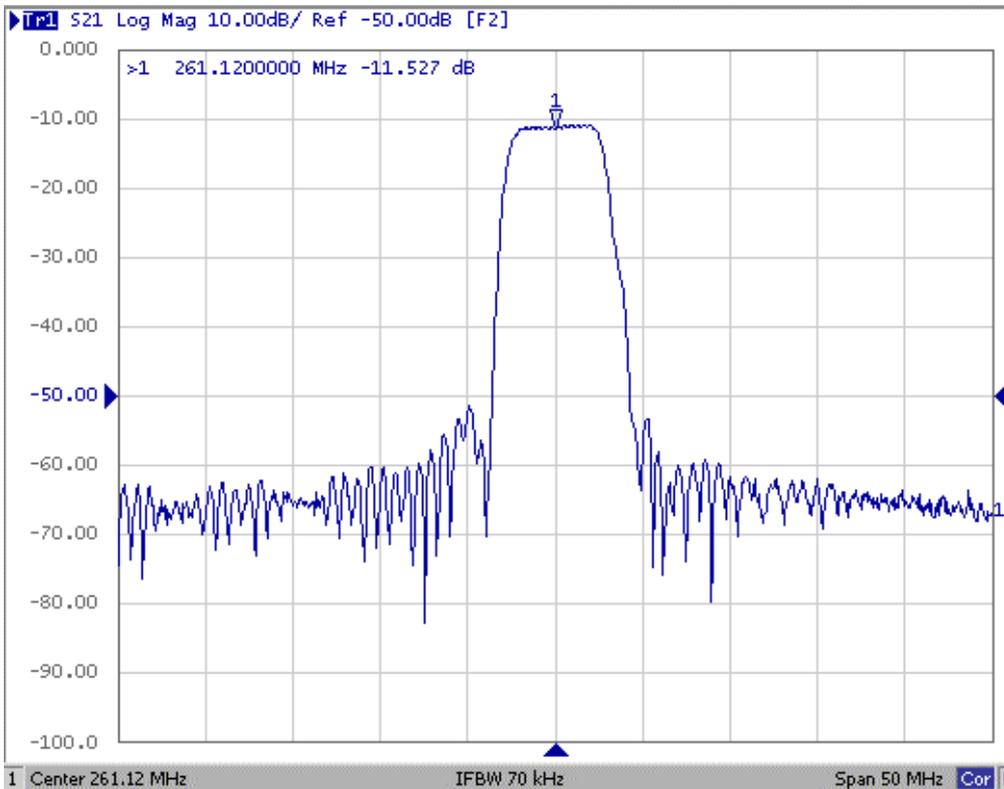


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

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

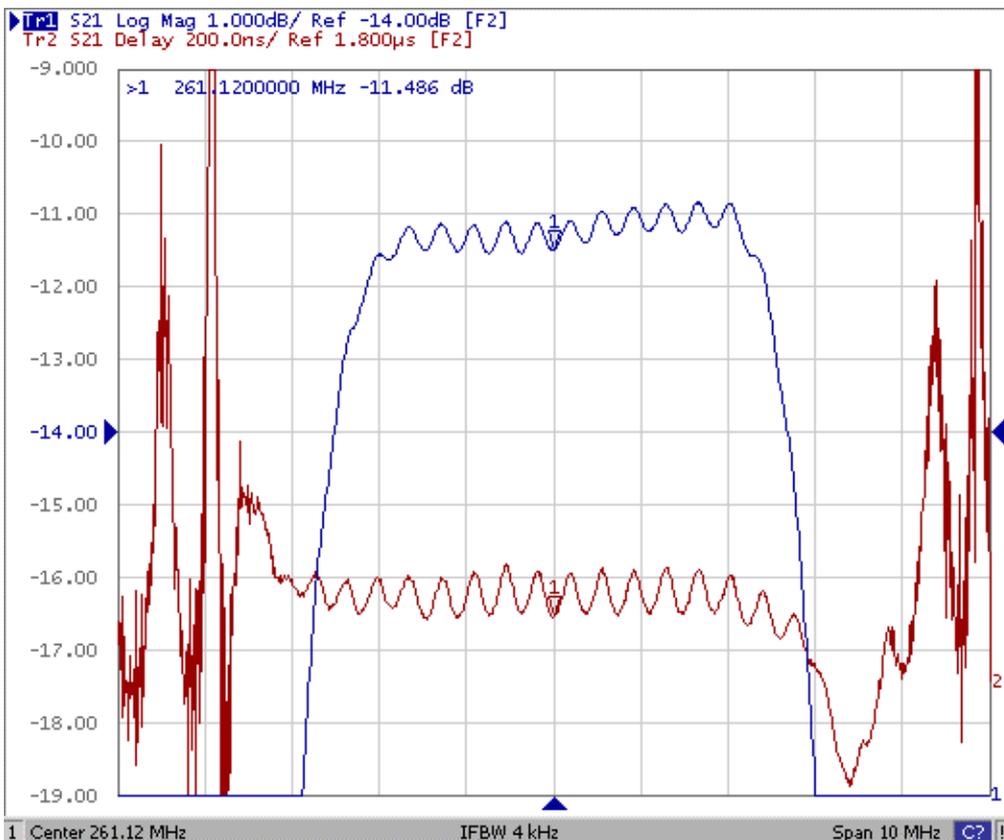
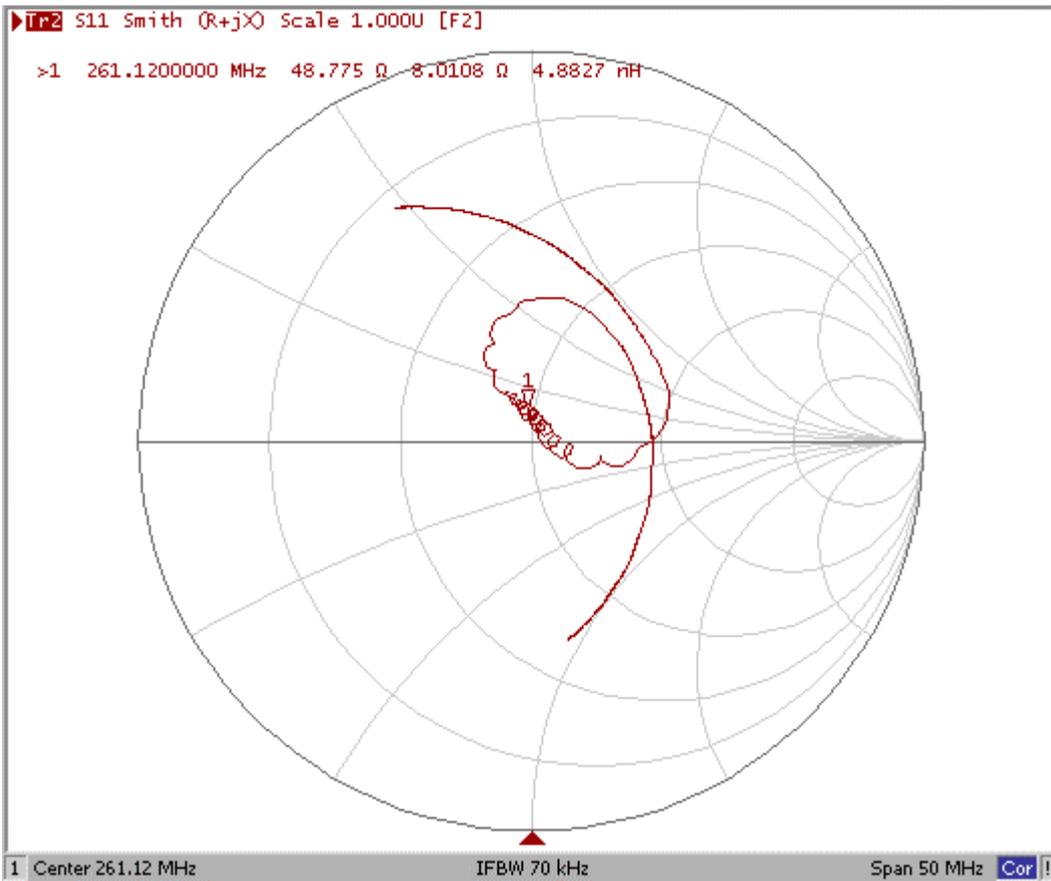
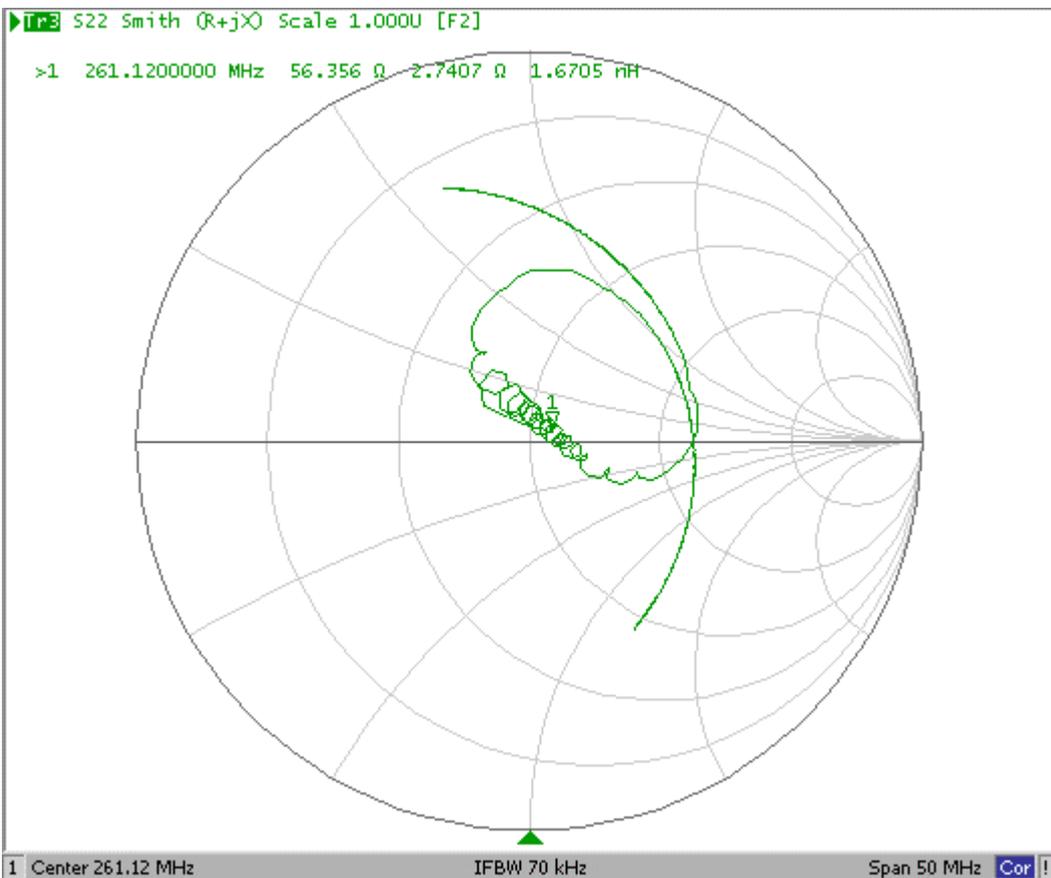


Fig2. Horizontal: 1.0MHz/Div Vertical: 200nec/Div

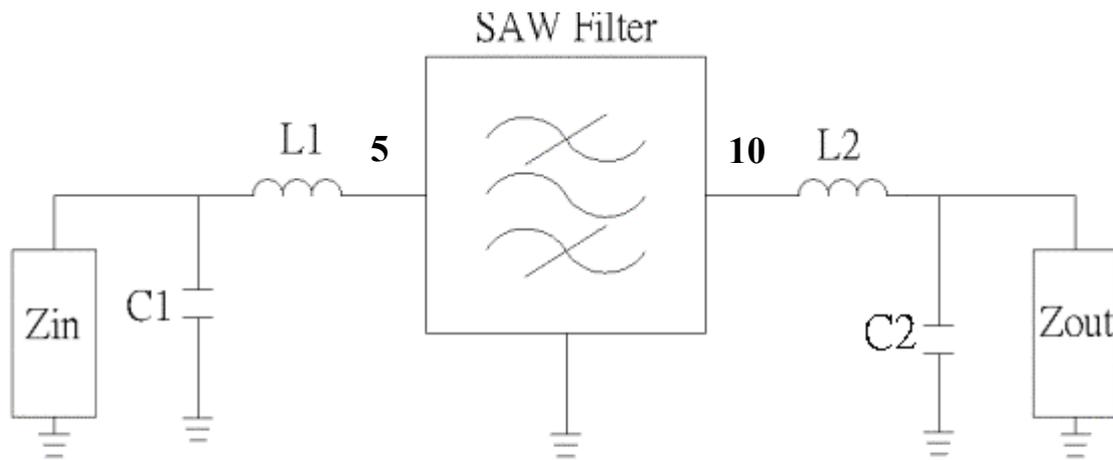
### 3. S11 Smith Chart: (span : 50MHz)



### 4. S22 Smith Chart (span : 50MHz)



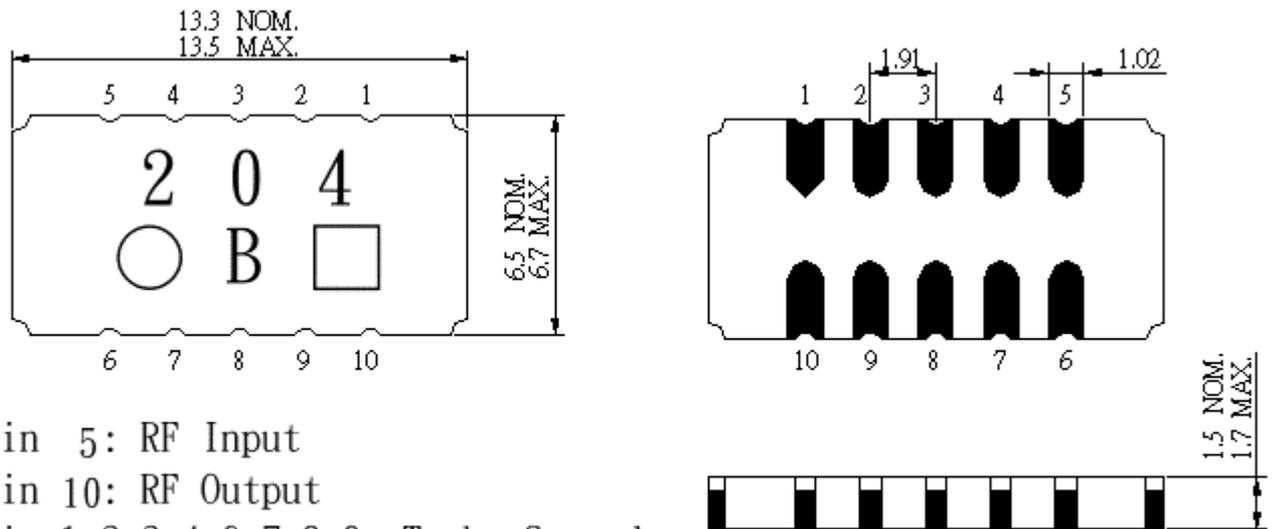
**D. Measurement Circuit:**



Zin and Zout are  $50\ \Omega$ .

$L1=8.2\ \text{nH}, C1=36\ \text{pF}, L2=9.4\ \text{nH}, C2=31\ \text{pF}$

**E. Outline Drawing:**



Pin 5: RF Input  
 Pin 10: RF Output  
 Pin 1, 2, 3, 4, 6, 7, 8, 9: To be Ground

□ : Date code

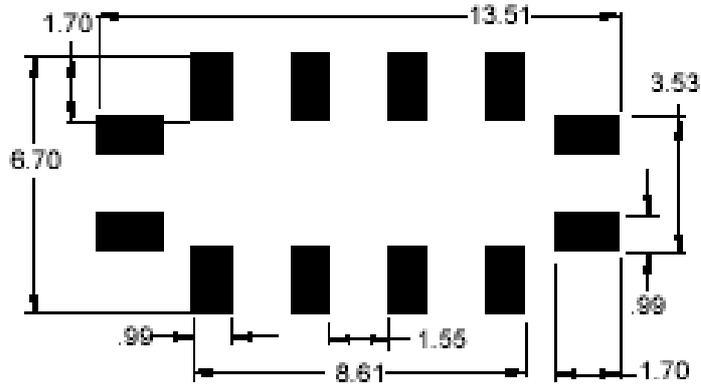
Unit: mm

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

Unit : mm

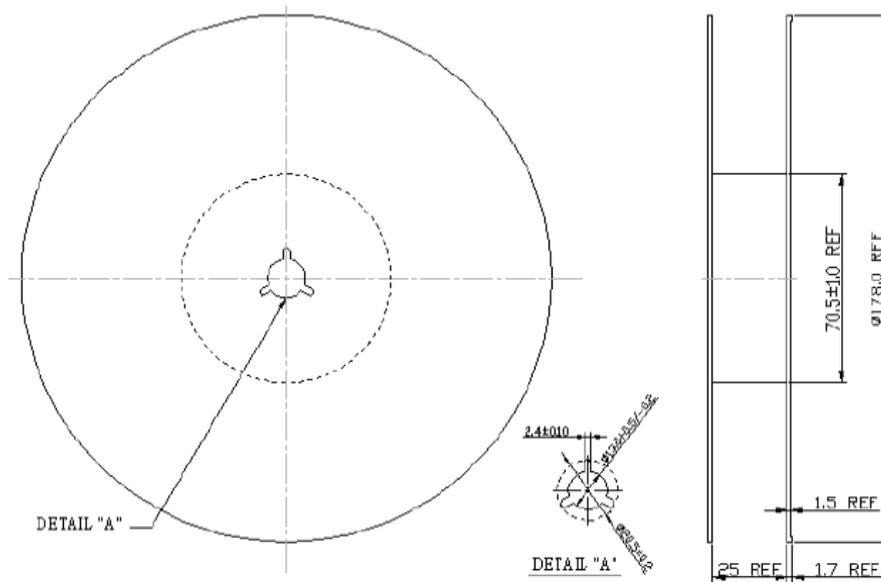
Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>

**F. PCB Footprint:**



**H. PACKING:**

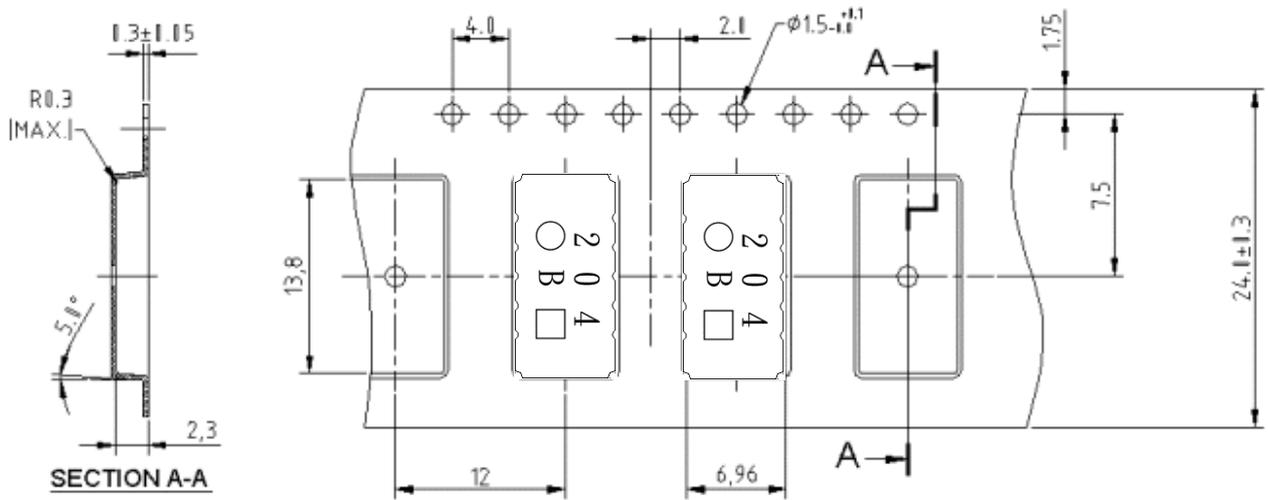
**1. REEL DIMENSION**



Unit: mm

Unit: mm

## 2. TAPE DIMENSION



Unit: mm

## I. RECOMMENDED REFLOW PROFILE :

