



# TAI-SAW TECHNOLOGY CO., LTD.

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

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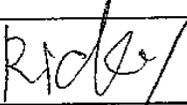
## Product Specifications Approval Sheet

Product Description: SAW Filter 874MHz SMD 13.3x6.5mm

TST Part No.: TB0805A

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

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

Checked by: Ricky Lee 

Approved by: Francis Chen 

Date: 2010/01/22

- Customer signed back is required before TST can proceed with sample build and receive orders.
- Orders received without customer signed back will be regarded as agreement on the specifications.
- 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 874MHz(BW=15.1MHz) SMD 13.3X6.5mm

MODEL NO.: TB0805A

REV.2.0

### 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	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	874	-
Insertion Loss, IL	dB	-	23	26.5
1 dB Bandwidth	MHz		15.6	-
3 dB Bandwidth	MHz		16.1	
40 dB Bandwidth	MHz		19.5	21.1
Amplitude Ripple Fc ± 7.0MHz	dB	-	0.8	1.2
Group-Delay Ripple Fc ± 7.0MHz	nsec	-	85	120
Absolute Delay	usec	-	0.9	
Temperature Coefficient of frequency	PPM/ °C <sup>2</sup>	-0.036		
Package	mm <sup>3</sup>	13.3x6.5		
Notes				

### C. Frequency Characteristics :

#### 1. S21 Response: (span : 80MHz)

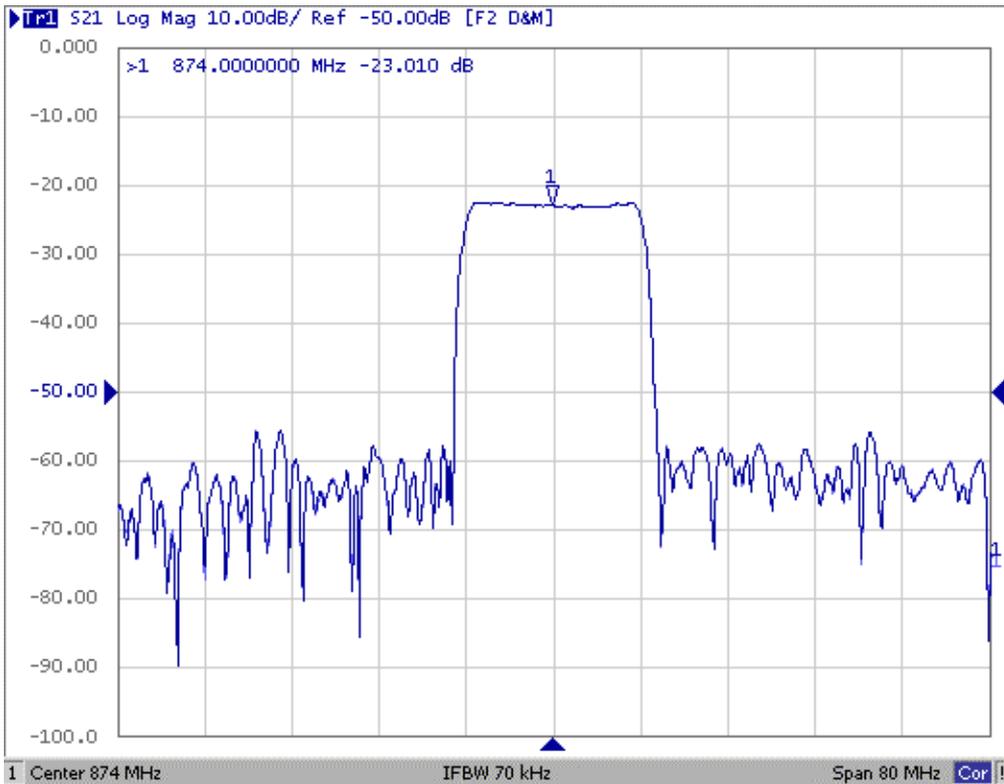


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

#### 2. Group-Delay Ripple: (span : 20MHz)

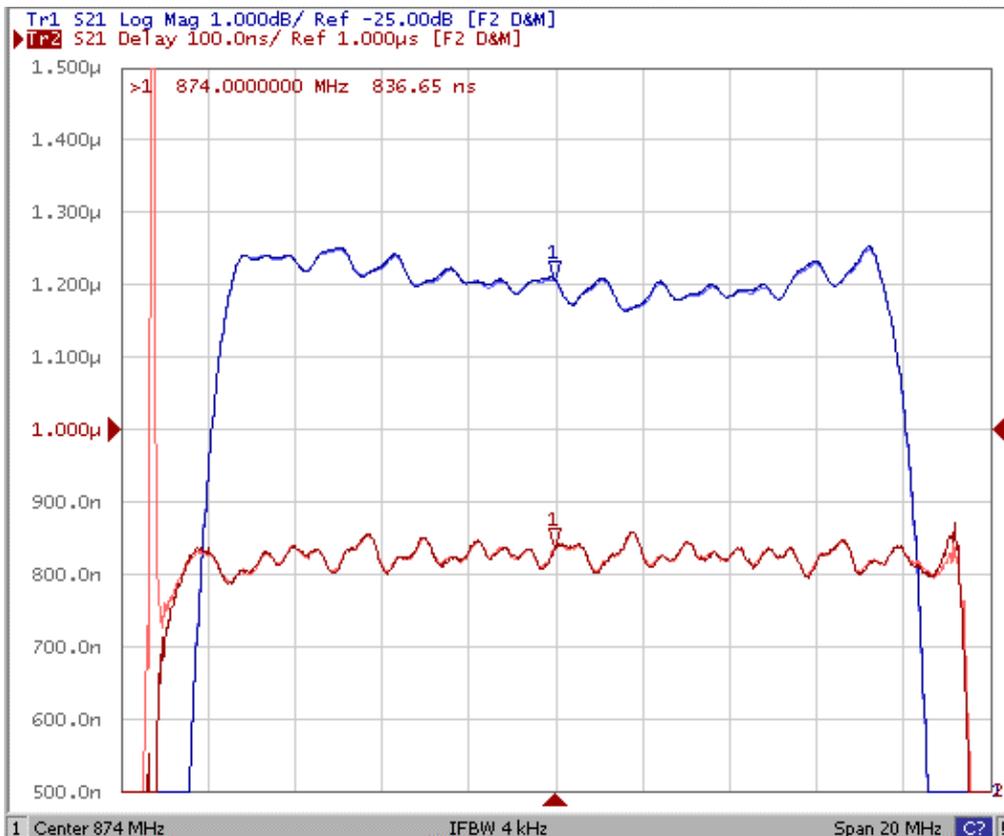
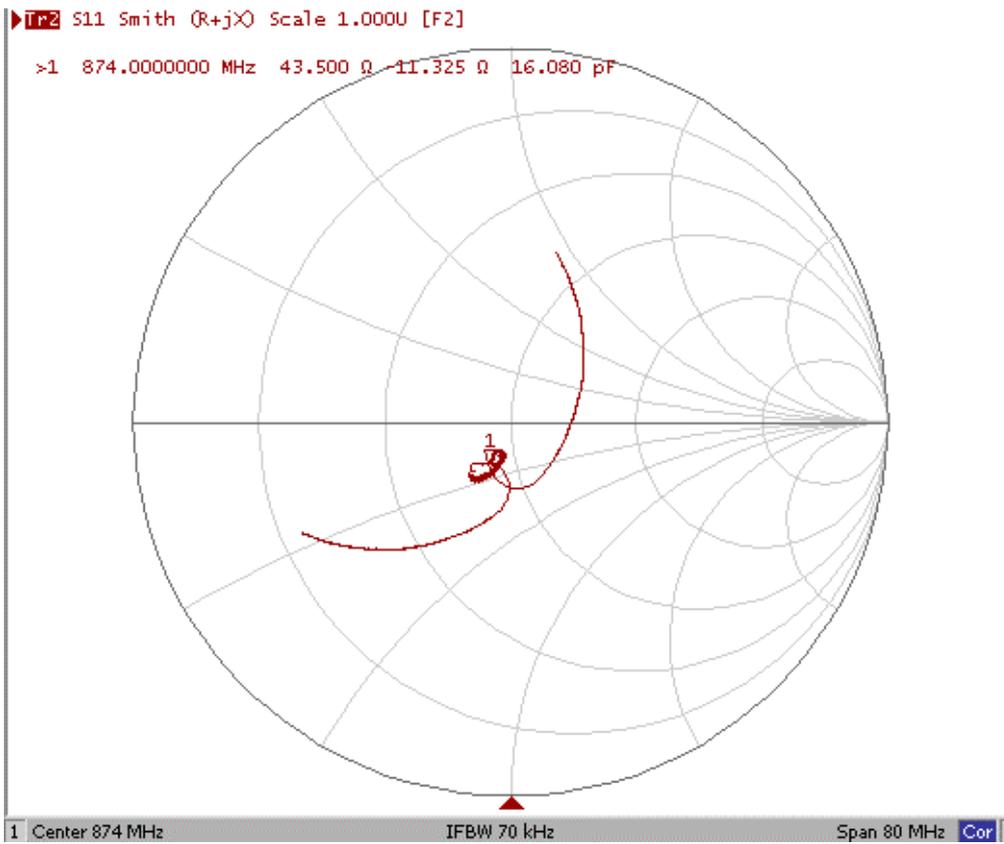
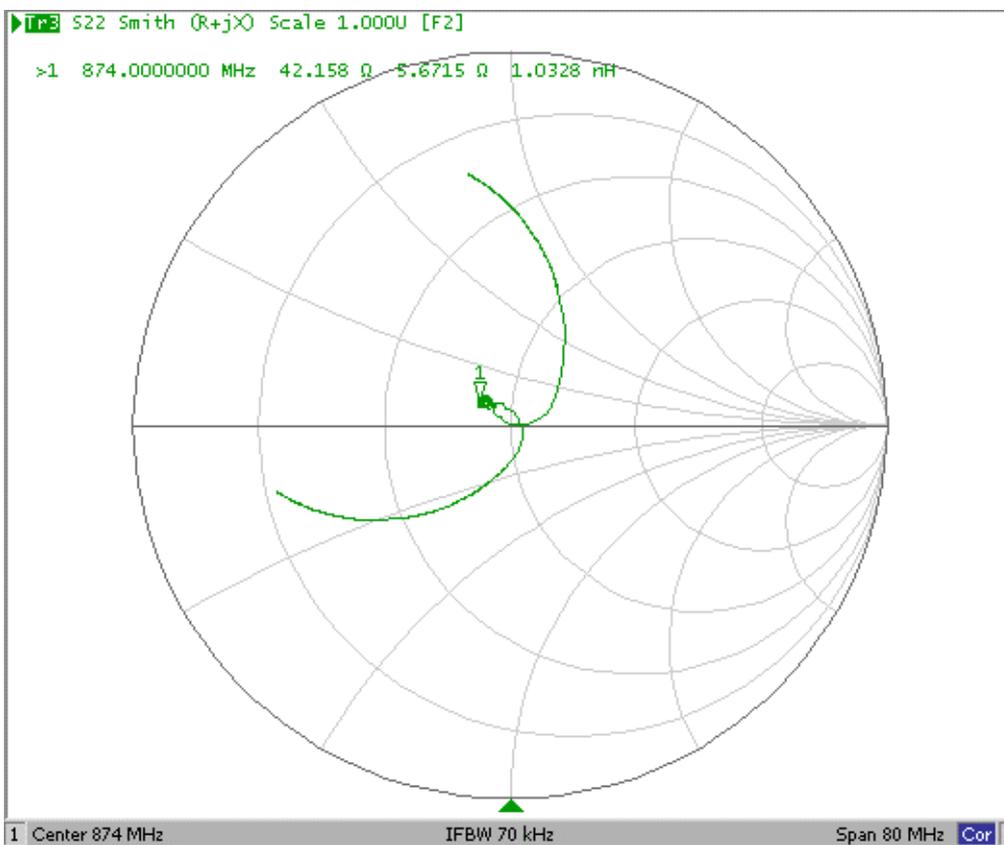


Fig2. Horizontal: 2MHz/Div Vertical: 100nec/Div

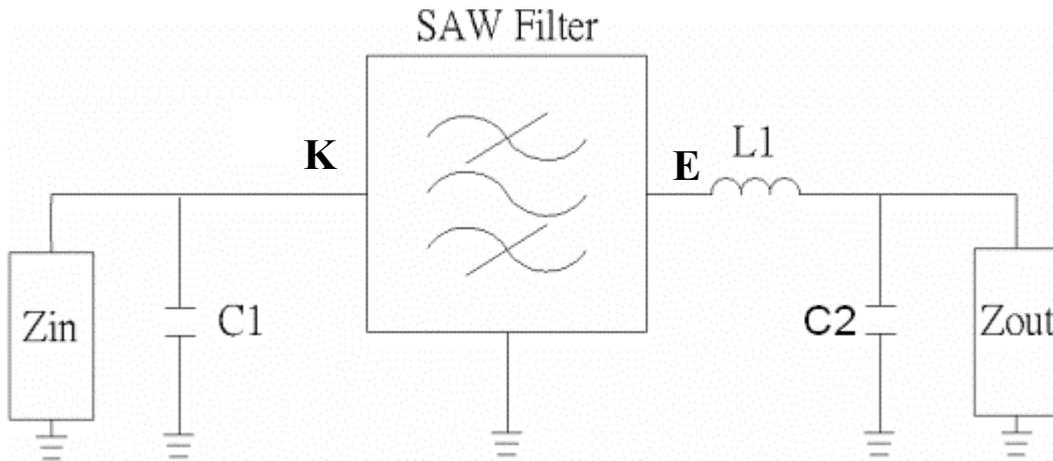
### 3. S11 Smith Chart: (span : 80MHz)



### 4. S22 Smith Chart (span : 80MHz)

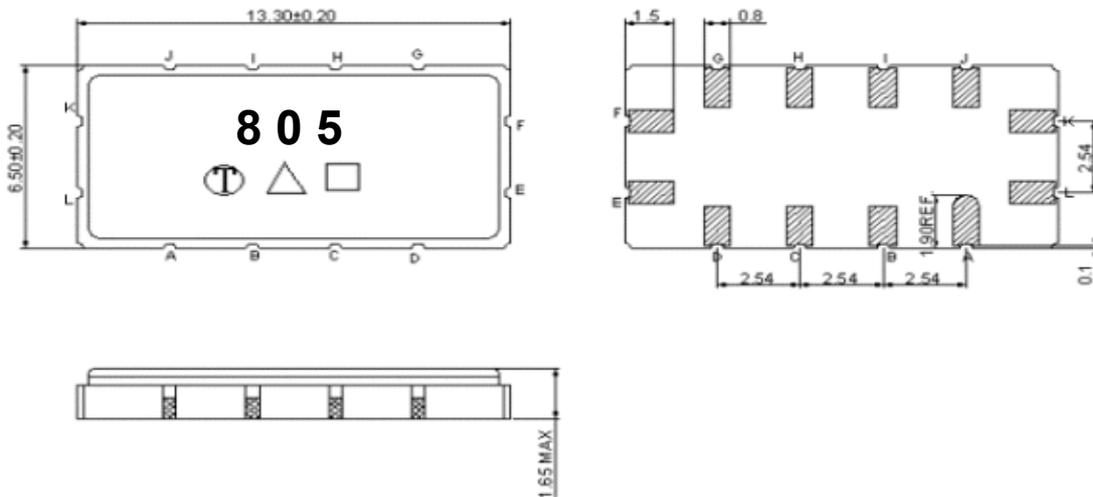


**D. Measurement Circuit:**



Zin and Zout are 50ohm.  
 C1=10pF, L1=1.4nH, C2=12pF

**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)

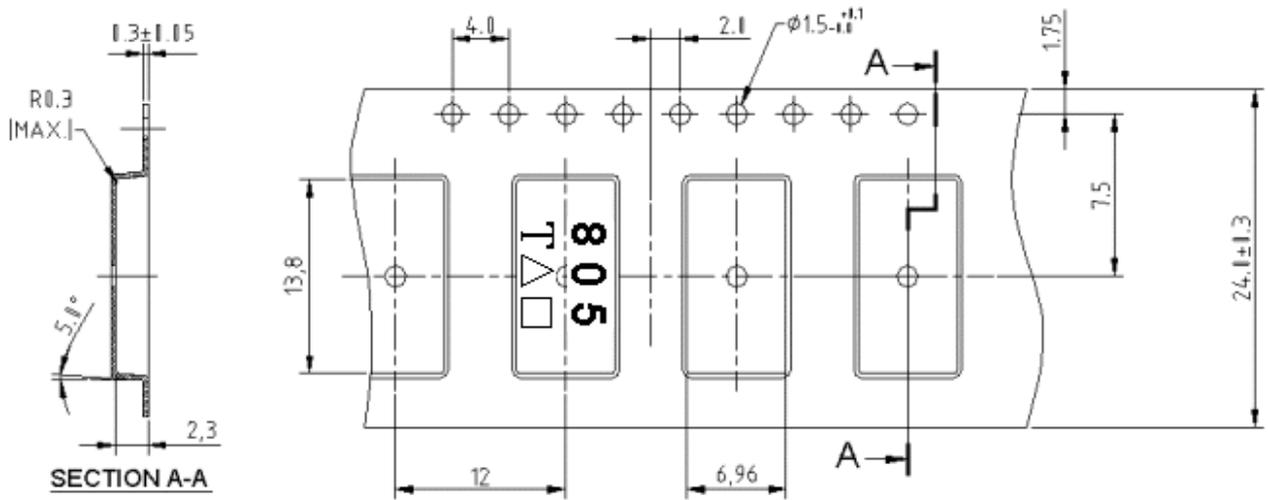
Unit : mm (week01, 02, 03...52 =>A, B, C...z)

△ : Product / Year Code

Year	2009	2010	2011	2012
Product Code	B	b	<u>B</u>	<u>b</u>



## 2. TAPE DIMENSION



Unit: mm

## I. RECOMMENDED REFLOW PROFILE :

