



# 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 13.3×6.5mm

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

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 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)

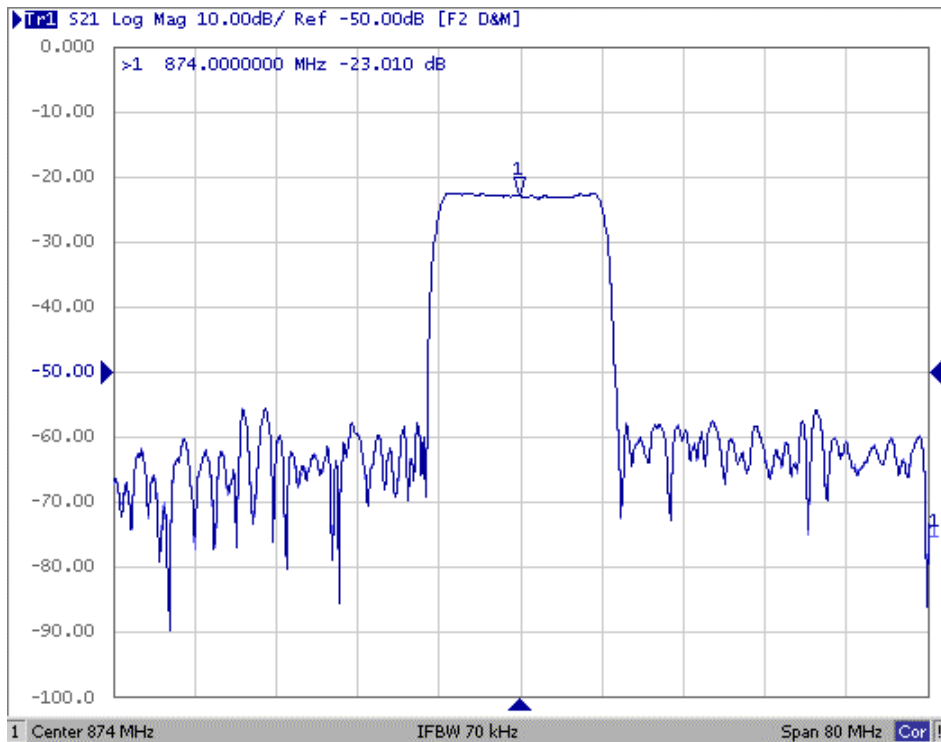


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

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

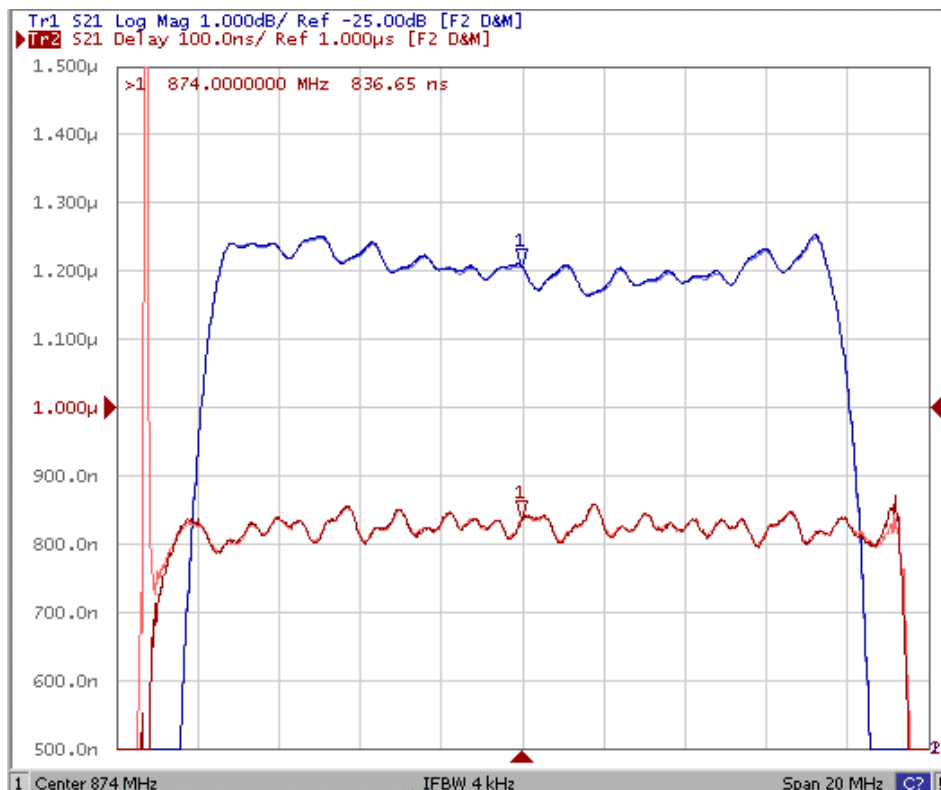


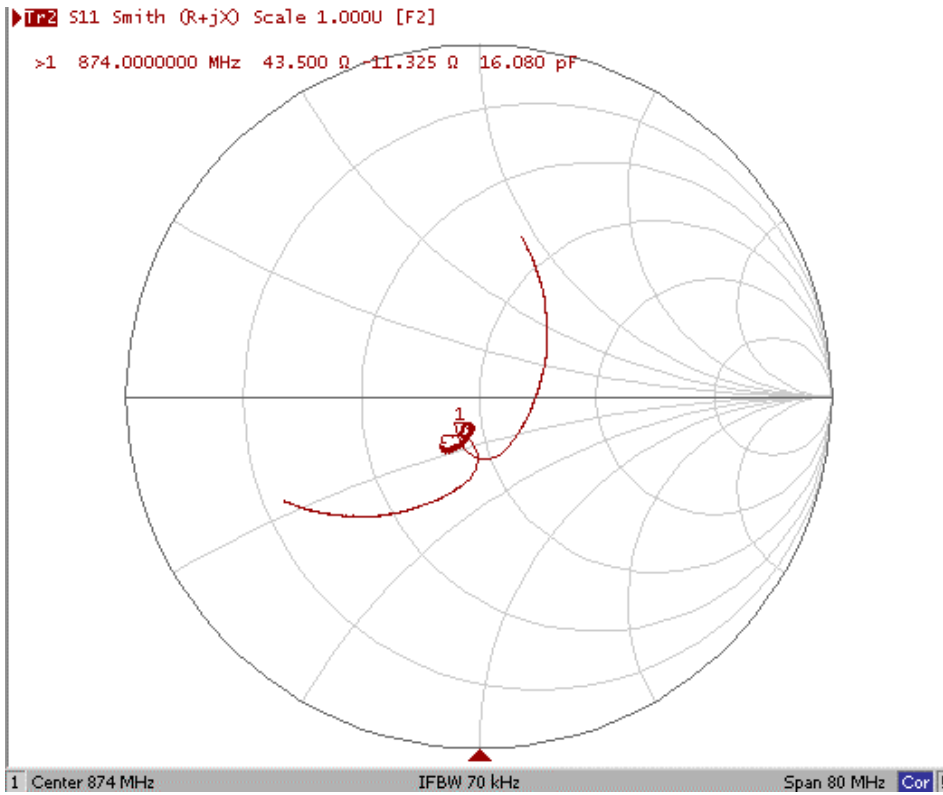
Fig2. Horizontal: 2MHz/Div Vertical: 100nec/Div

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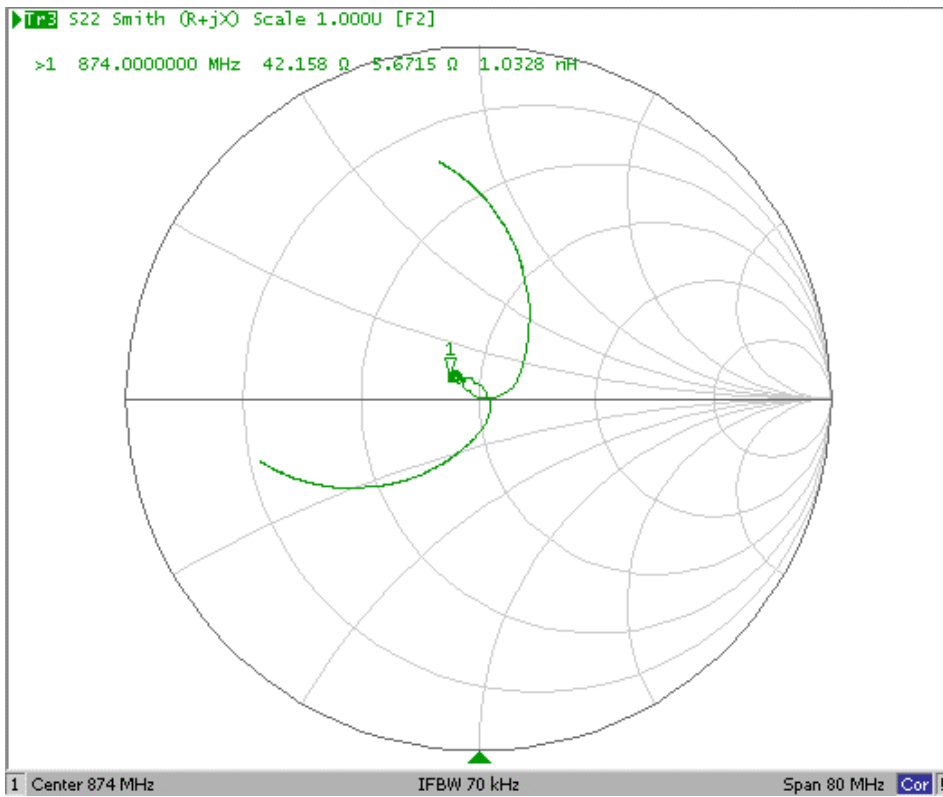
TST DCC  
Release document

- 3 -

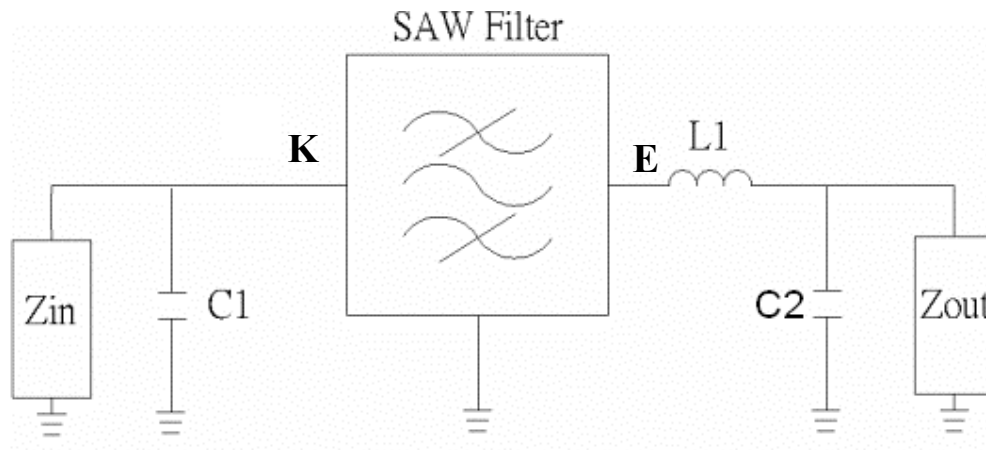
### 3. S11 Smith Chart: (span : 80MHz)



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

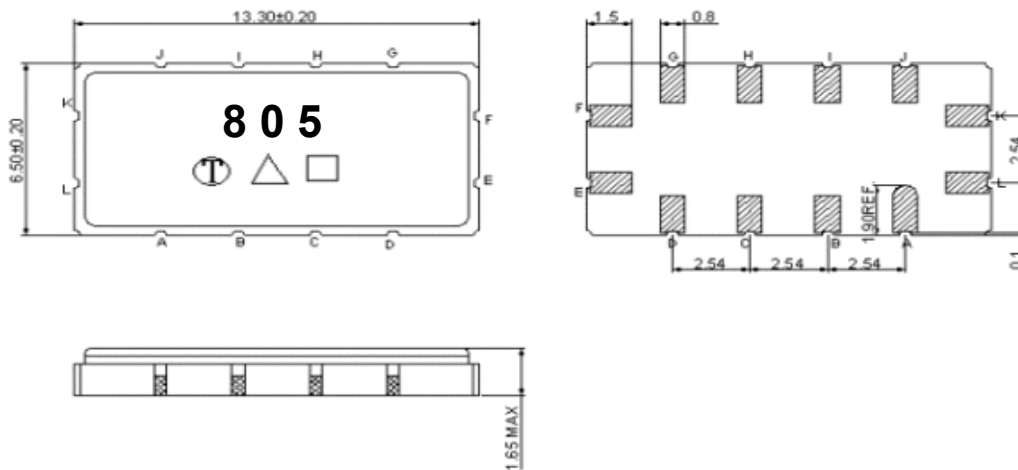


### D. Measurement Circuit:



$Z_{in}$  and  $Z_{out}$  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

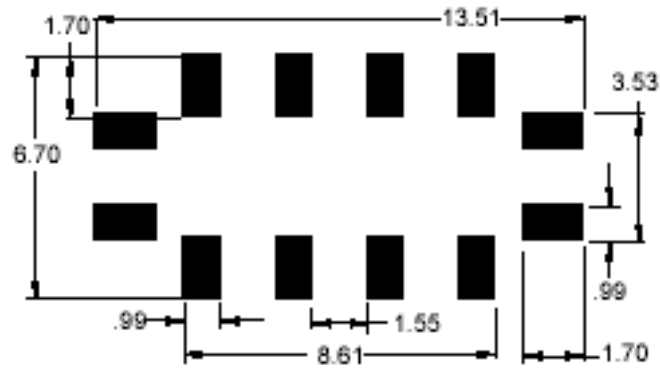
□ : Week Code (Follow the table from planner each year)

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>

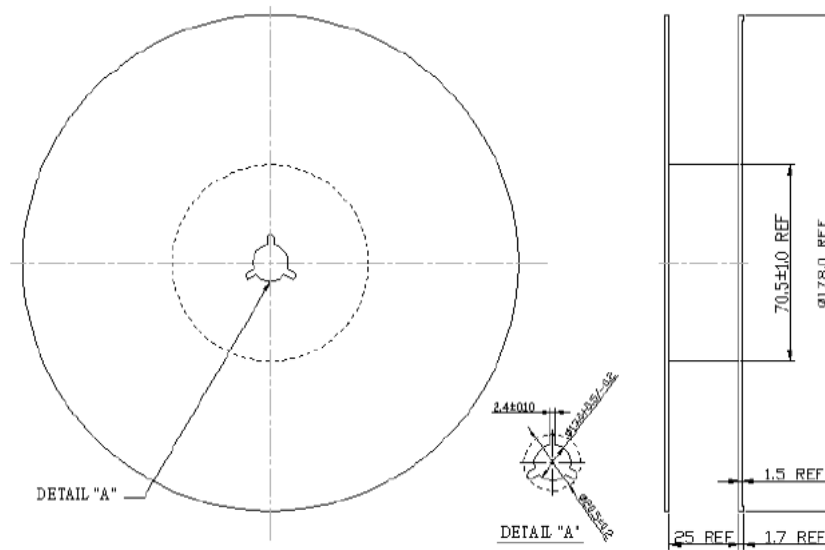
**F. PCB Footprint:**



Unit: mm

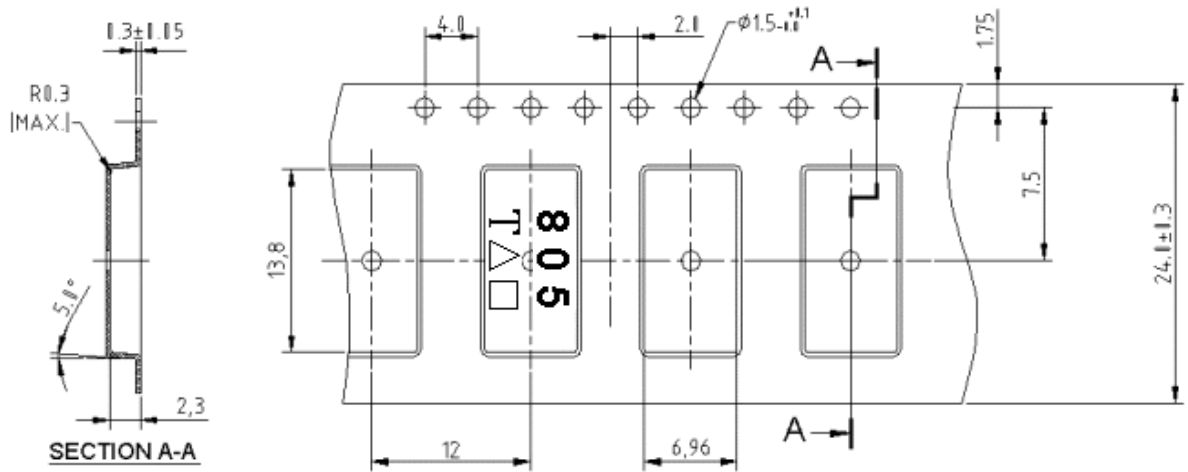
**H. PACKING:**

**1. REEL DIMENSION**



Unit: mm

## 2. TAPE DIMENSION



Unit: mm

## I. RECOMMENDED REFLOW PROFILE:

