



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Approval Sheet For Product Specification

Issued Date:

Product Name: 256MHz IF SAW Filter (BW=34MHz)

TST Parts No.: TB0758A

Customer Parts No.: \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Andy Yu *Andy Yu*

Approval by: Francis Chen *[Signature]*

Date: 2009/04/20



# TAI-SAW TECHNOLOGY CO., LTD.

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

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales3@mail.taisaw.com](mailto:tstsales3@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

SAW Filter 256MHz (SMD 5.0×7.0 mm)

Model No.: TB0758A

Rev. No.:1.0

## A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ +90 °C
2. Storage Temperature: -40 °C ~ +90 °C
3. Input power: 20dBm

RoHS Compliant  
Lead free  
Lead-free soldering

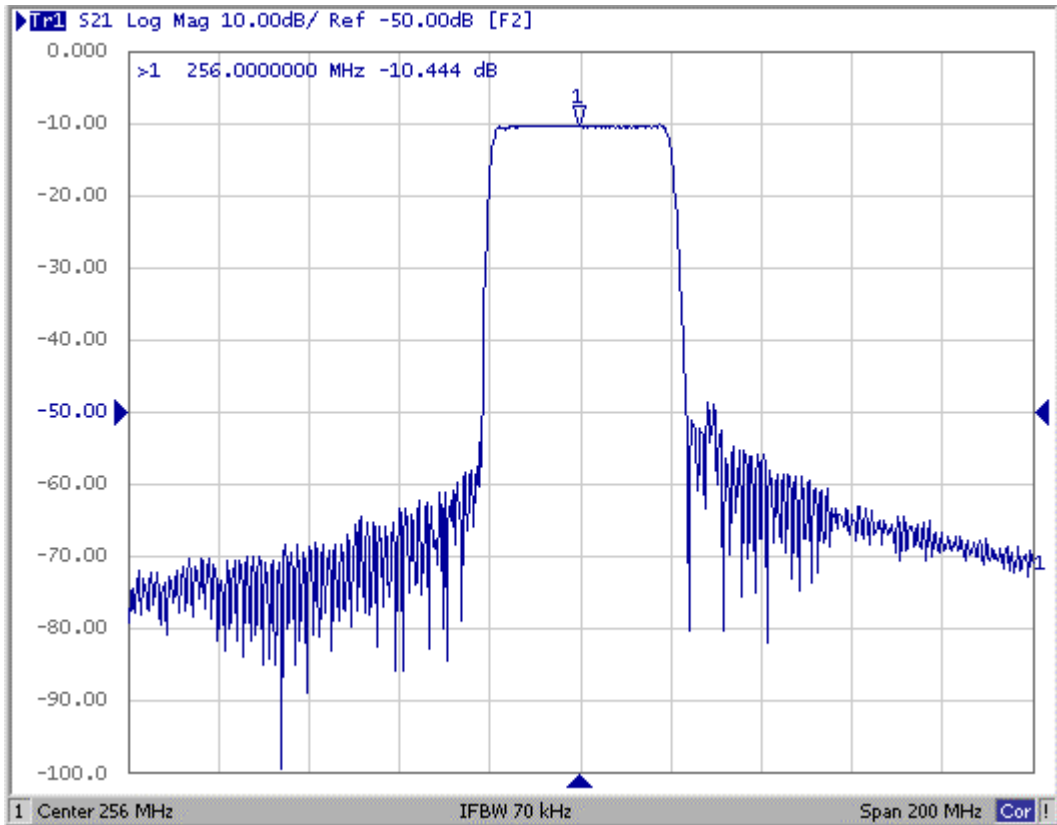
## B. Characteristics :

Ambient Temperature: 25 °C

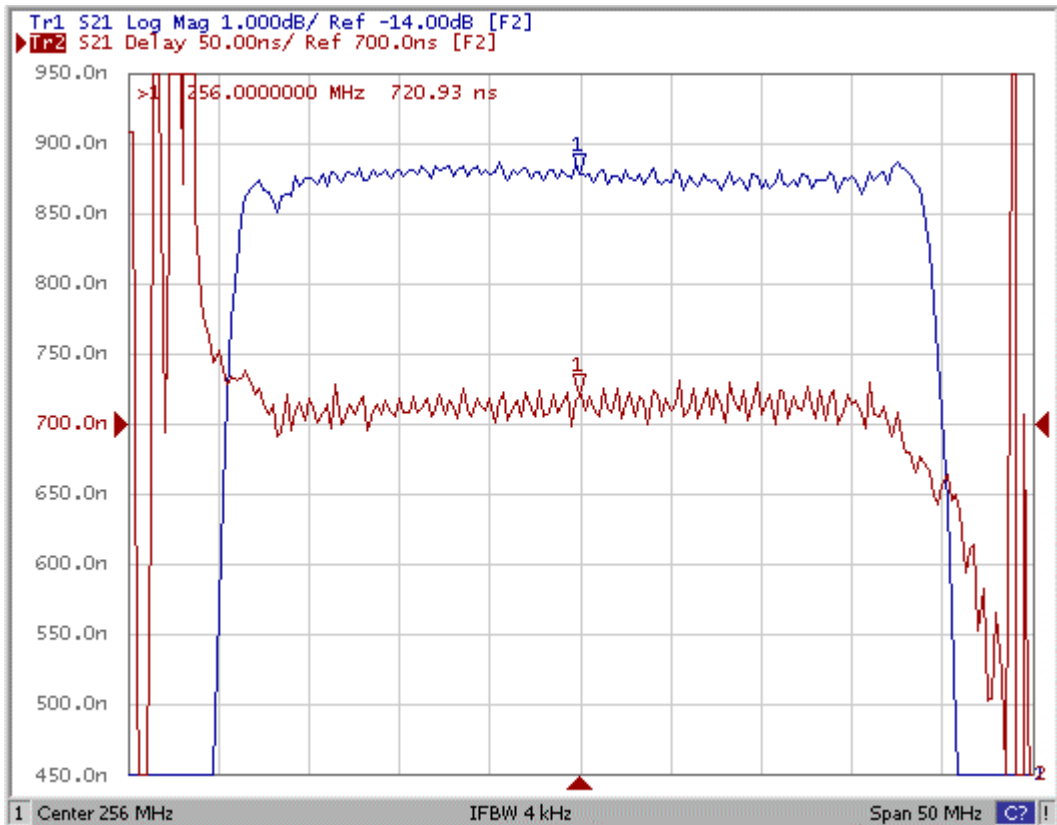
Characteristics	Value			Note
	Min.	Typ.	Max.	
<b>Center frequency</b> $F_c$ MHz	-	256	-	-
<b>Minimum Insertion loss</b> I.L. dB	-	10.2	13.0	-
<b>1dB BW</b> MHz	34	38	-	
<b>40dB BW</b> MHz	-	45	50.0	
<b>Attenuation</b> (Reference to Minimum Insertion loss)				
<b>225MHz</b> dB	40	51	-	-
<b>290MHz</b> dB	40	47	-	-
Temp Coefficient ppm/K	-	-94	-	-
<b>Matching:</b>				
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 :

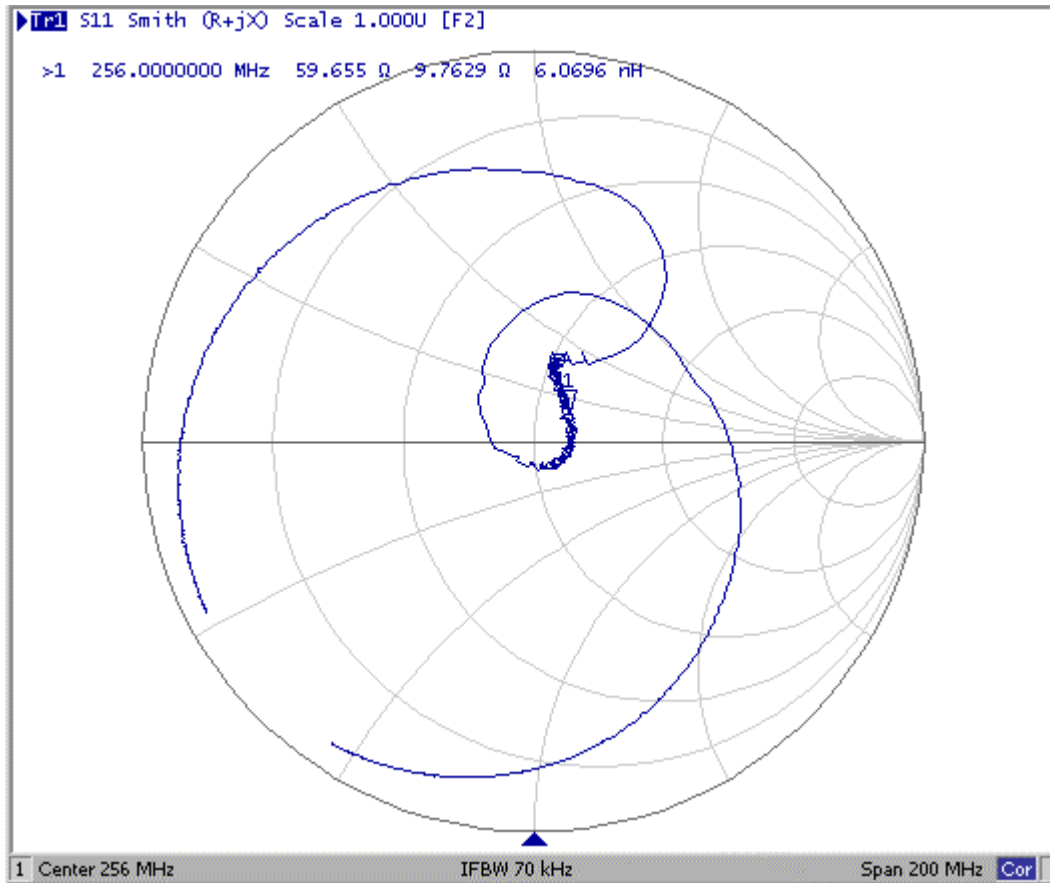
(1) wide band Response:(span 200MHz)



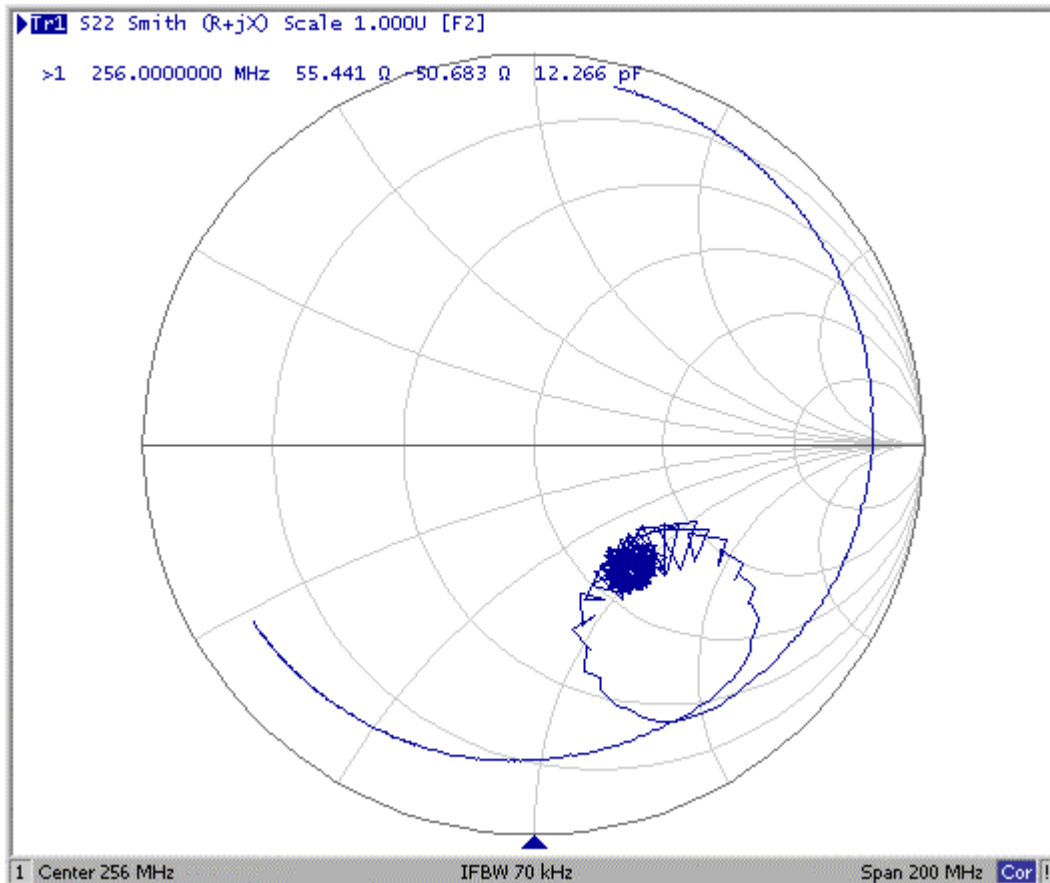
(2) Pass band Response and Group Delay Variation: (span 50MHz)



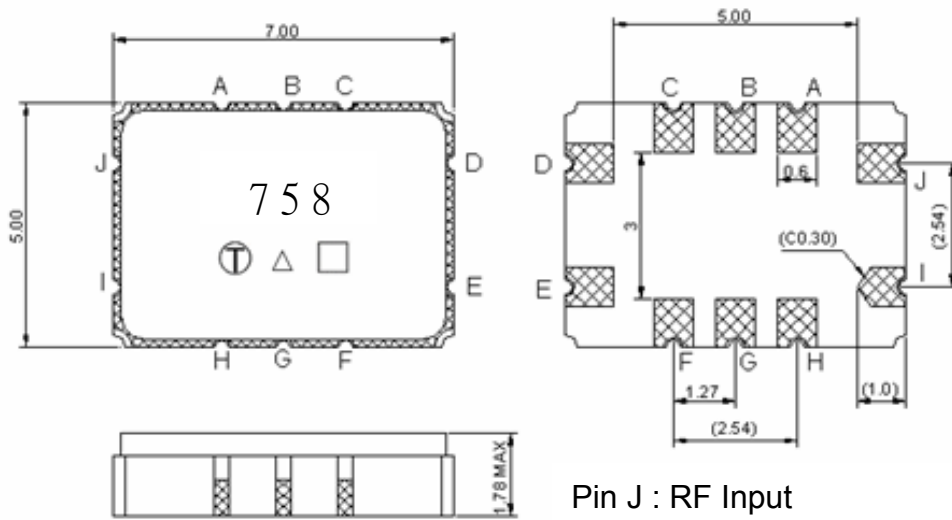
(3) S11 Smith-Chart: (span 200MHz)



(4) S22 Smith-Chart: (span 200MHz)



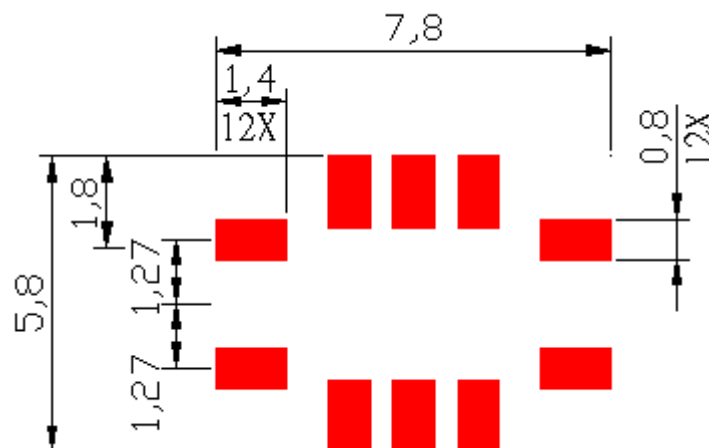
**D. Outline Drawing:**



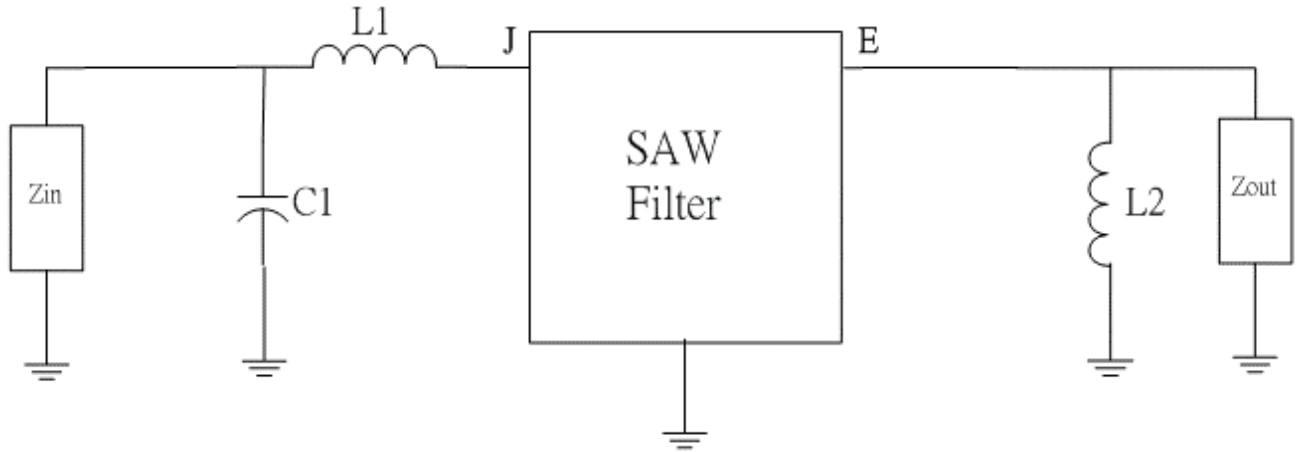
Pin J : RF Input  
 Pin E : RF Output  
 Pin H, G, F, D, C, B, A, I : Ground  
 Unit: mm  
 □ : Week Code (Follow the table from planner each year)  
 △ : Product / Year Code

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

**E. PCB Footprint:**



**F. Matching Circuit:**

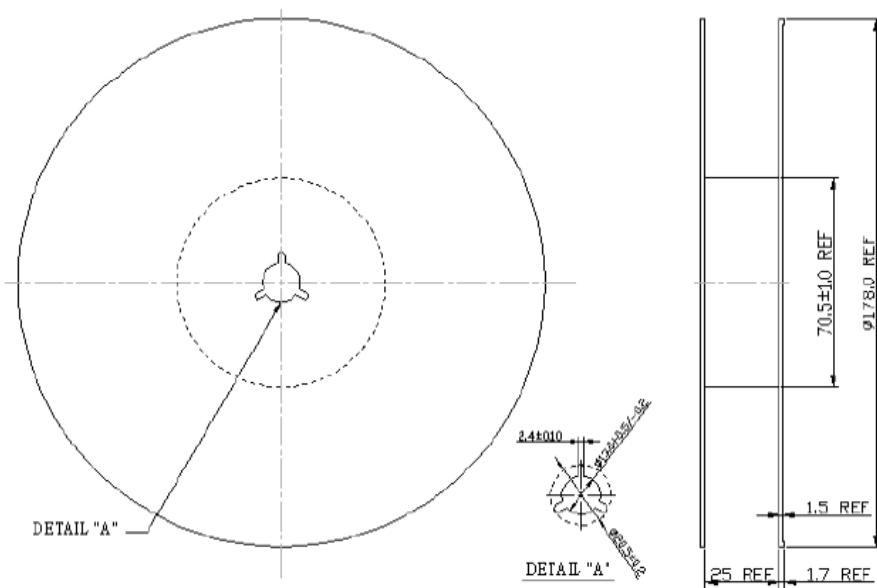


$$Z_{in} = Z_{out} = 50 \text{ ohm}$$

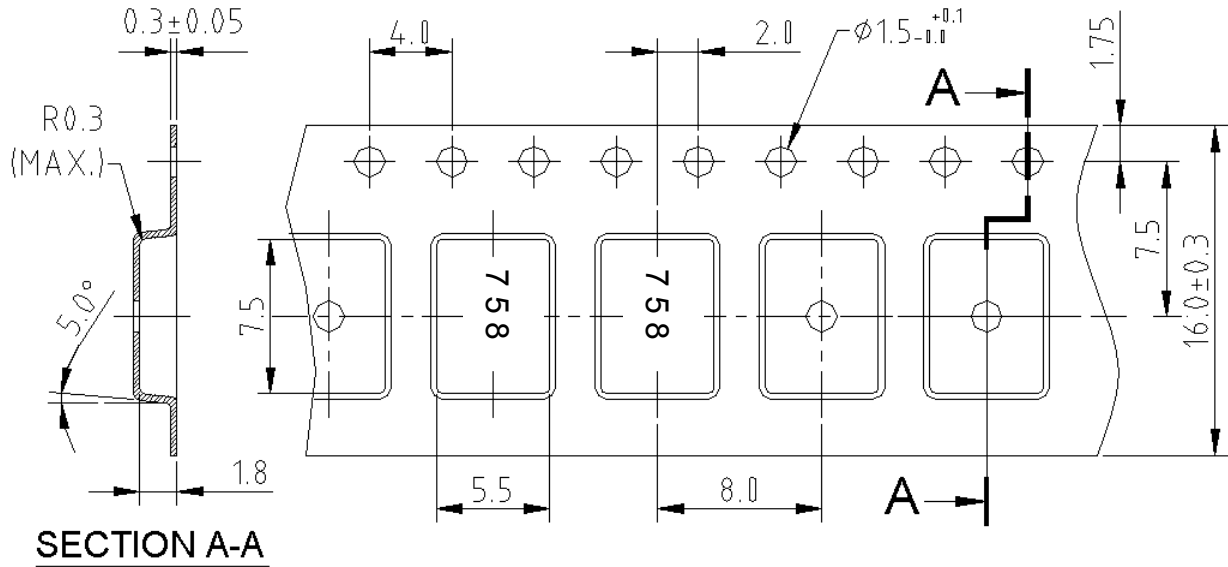
$$L1 = 22\text{nH}, C1 = 26\text{pF}, L2 = 33\text{nH}$$

**G. Packing:**

(1). REEL DIMENSION:



(2). TYPE DIMENSION:



H. Recommended Reflow Profile:

