



# 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)

## Product Specifications Approval Sheet

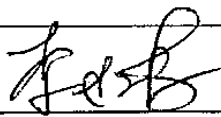
Issued Date:


Product Name: SAW RF Filter 748 MHz

TST Parts No.: TA1100A ( package 3.8mm x 3.8 mm )

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

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

Checked by: \_\_\_\_\_ Kazuma Lee 

Approval by: \_\_\_\_\_ Francis Chen 

Date: \_\_\_\_\_ 03 / 24 / 2010

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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## RF SAW Filter 748 MHz

MODEL NO.:TA1100A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typical	Max.
<b>Center Frequency</b> <b>Fc</b>	MHz	-	748	-
<b>Min. Insertion Loss</b>	dB	-	3.2	4.0
<b>Amplitude Ripple (728 ~ 768 MHz)</b>	dB	-	1.2	2.0
<b>I/O Return Loss (728 ~ 768 MHz)</b>	dB	-	6.7	-
<b>Group Delay Ripple (728 ~ 768 MHz)</b>	ns	-	8.0	40
<b>Phase Linearity (728 ~ 768 MHz)</b>	°rms	-	2.8	-
<b>Attenuation</b> (Reference level from 0 dB)				
100 ~ 658 MHz	dB	38	45	-
658 ~ 703 MHz	dB	28	35	-
793 ~ 838 MHz	dB	17	26	-
838 ~ 2000 MHz	dB	20	25	-
<b>Temperature Coefficient of Frequency</b>	ppm/K	-	-80	-

### C. FREQUENCY CHARACTERISTICS :

(1) Wide band Response:(span 2000MHz)

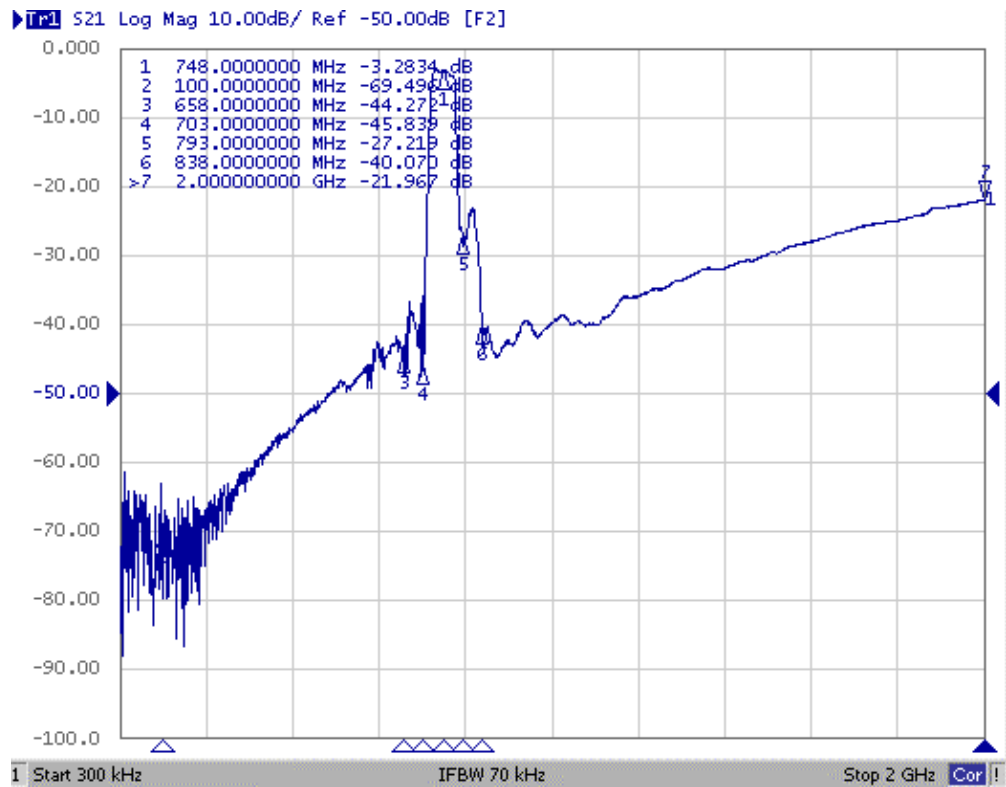


Fig1. Horizontal: 200MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

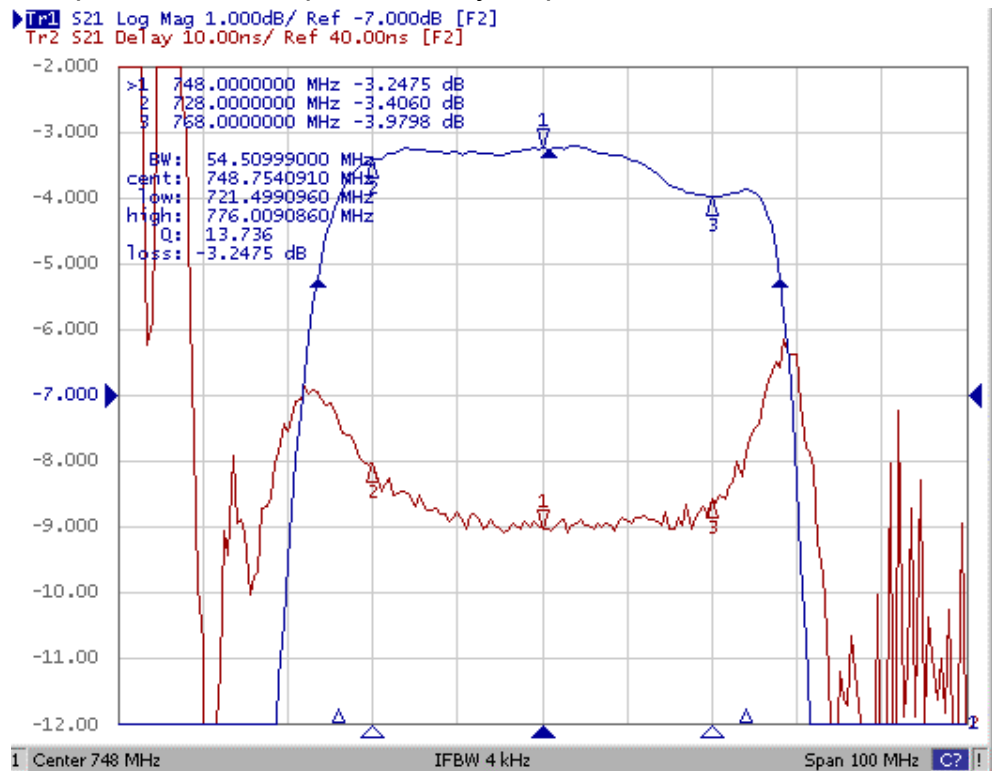


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div  
Vertical: 10ns/Div

(3) Narrow band response(sapn 400MHz):

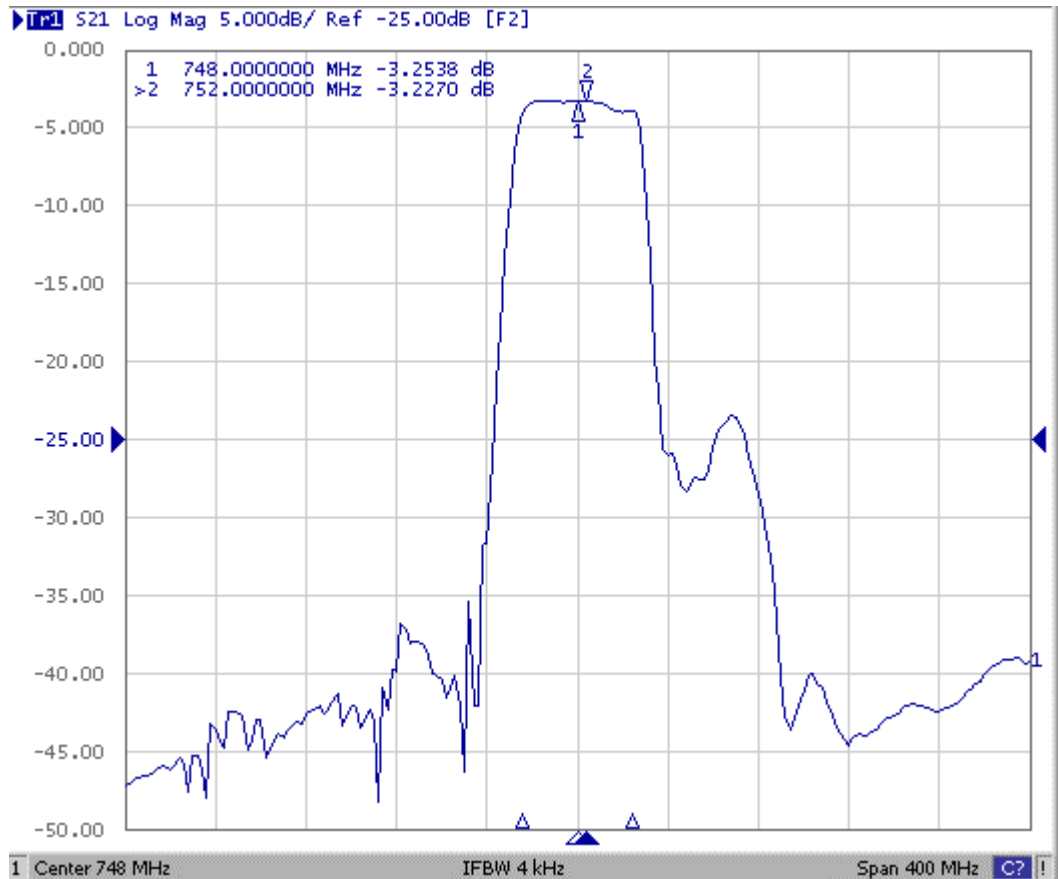
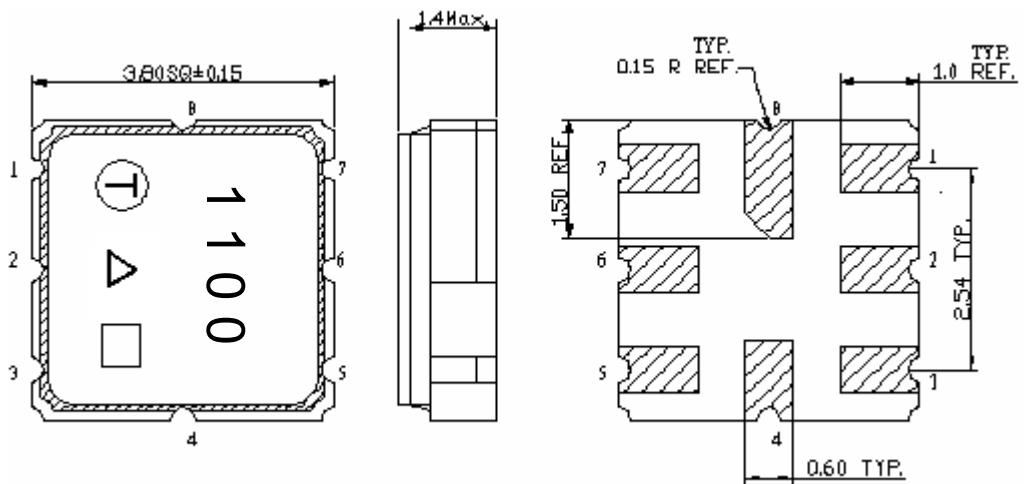


Fig3. Horizontal: 40MHz/Div Vertical: 5dB/Div

D.OUTLINE DRAWING:



2 : Input

6: Output

1,3,4,5,7,8: Ground

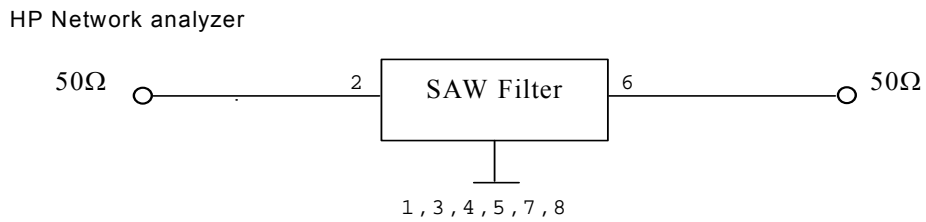
□ : Date Code (W01->A, W02->B,...W52->z)

Unit: mm

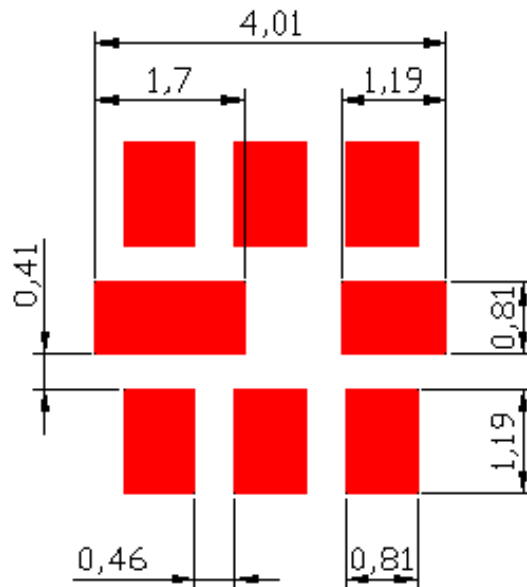
△ : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2012
Product Code	A	a	<u>A</u>	<u>a</u>

**E. MEASUREMENT CIRCUIT:**



**F. PCB FOOTPRINT:**





## H. RECOMMENDED REFLOW PROFILE :

