



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
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## Approval Sheet For Product Specification

Issued Date: Aug, 14, 2008

Product Name: SAW Filter 1680 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0891A

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

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

Checked by: \_\_\_\_\_ Bob Chau *Bob Chau*

Approval by: \_\_\_\_\_ Francis Chen *Francis Chen* 08/14/2008

Date: \_\_\_\_\_ 8, 14, 2008



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## SAW Filter 1680 MHz

MODEL NO.:TA0891A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential) :  $Z_s = 150 \Omega // 15 \text{ nH}$

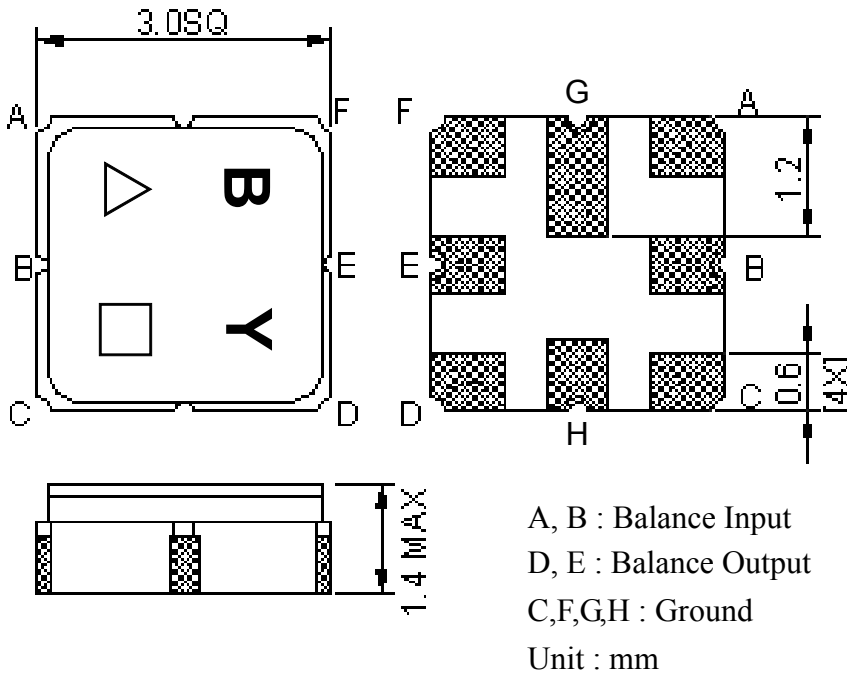
Terminating load impedance (differential) :  $Z_L = 150 \Omega // 15 \text{ nH}$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency <b>Fc</b>	MHz	-	1680	-	-
Bandwidth at -2 dB	MHz	60	76	-	-
Insertion Loss in 1650~1710 MHz	dB	-	3.7	5	-
Amplitude ripple (1650 MHz ~ 1710 MHz)	dB	-	1.2	2	-
Phase error (1650 MHz ~ 1710 MHz) (3)	deg	-	2	5	-
I/O VSWR (1650 MHz ~ 1710 MHz)		-	1.5	2.5	-
CMDR (1650 MHz ~ 1710 MHz)	dB	25	30	-	-
<b>Attenuation (1)</b>					
50 ~ 1580 MHz	dB	44	55	-	-
1800 ~ 3000 MHz	dB	44	50	-	-
3000 ~ 4000 MHz	dB	35	40	-	-
4000 ~ 6000 MHz	dB	18	23	-	-

#### Notes :

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 36 MHz block of the given bandwidth.
- (3) The phase error is measured over any 36 MHz block of the given bandwidth.

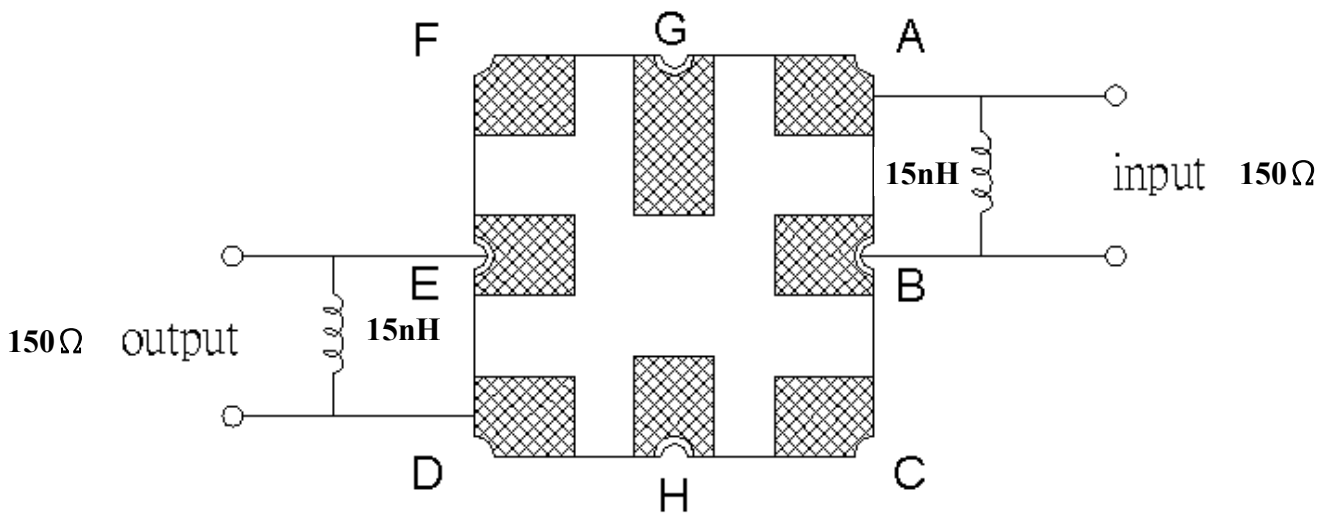
**C.OUTLINE DRAWING:**



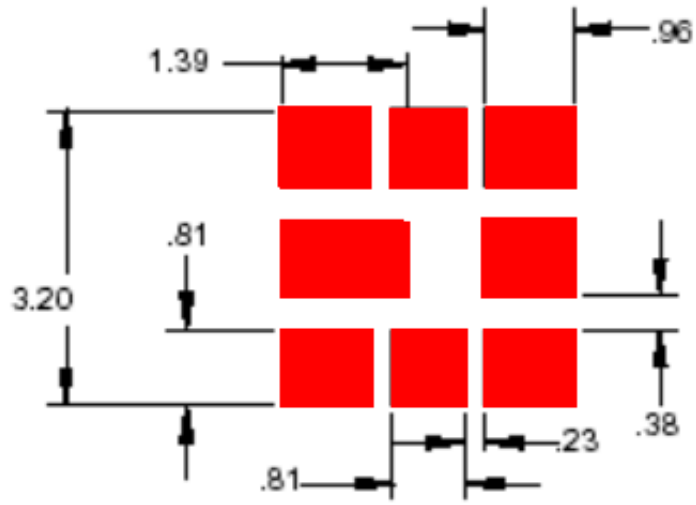
△ : Year Code (2006->6, ..., 2009->9)

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

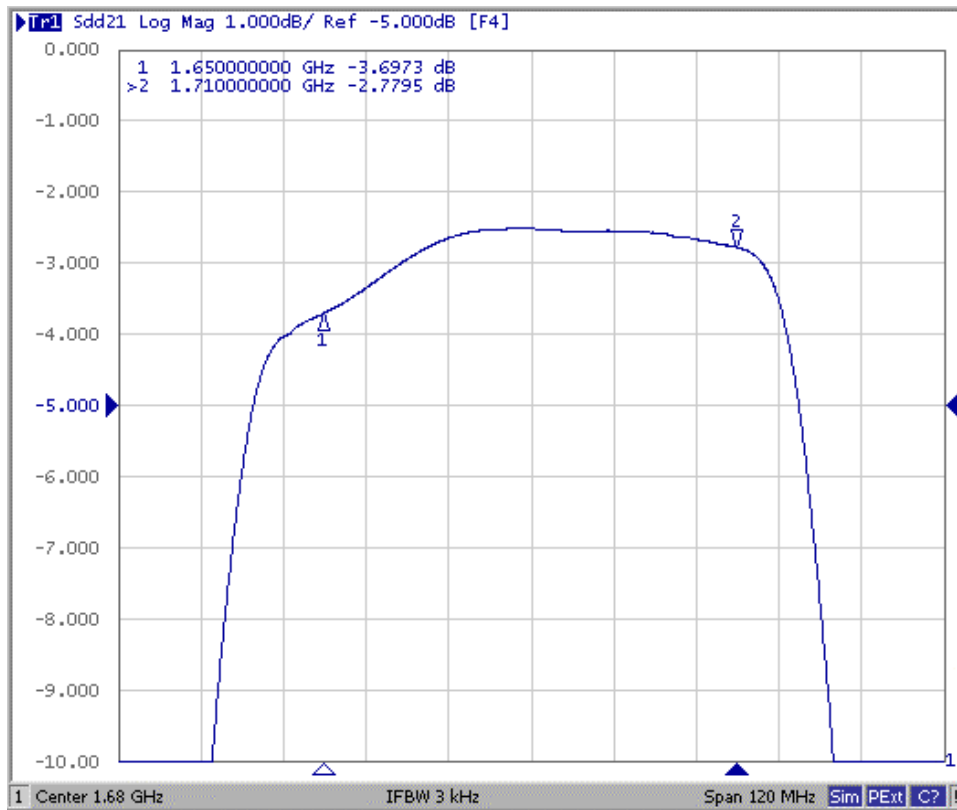
**D. MEASUREMENT CIRCUIT:**

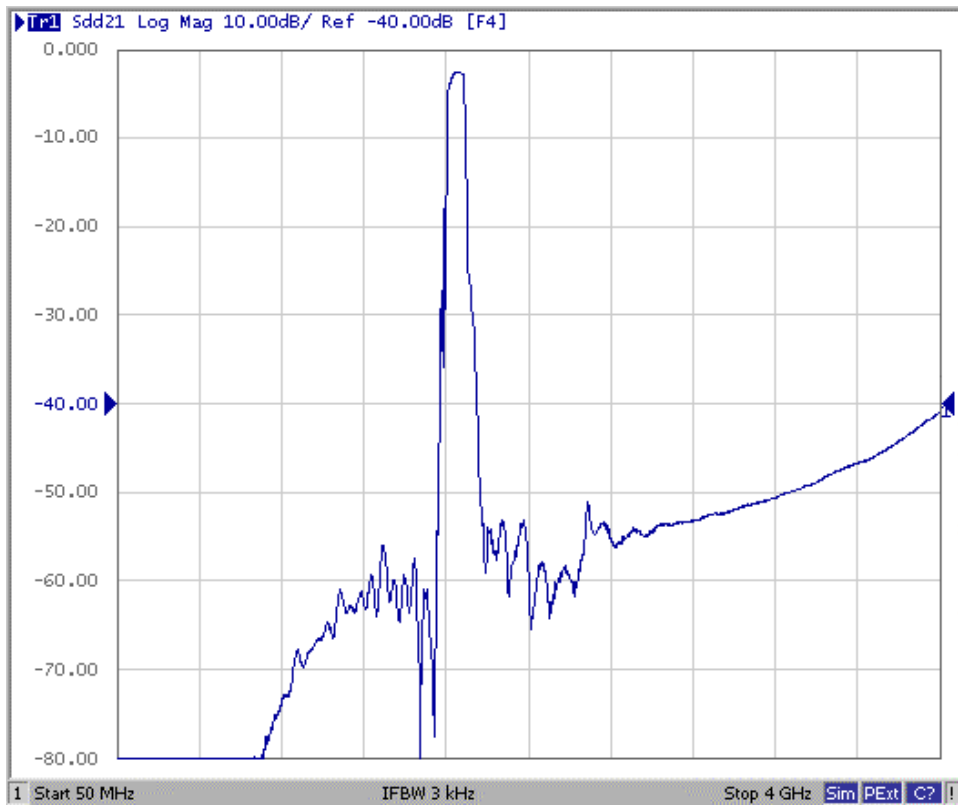


E. PCB Footprint:



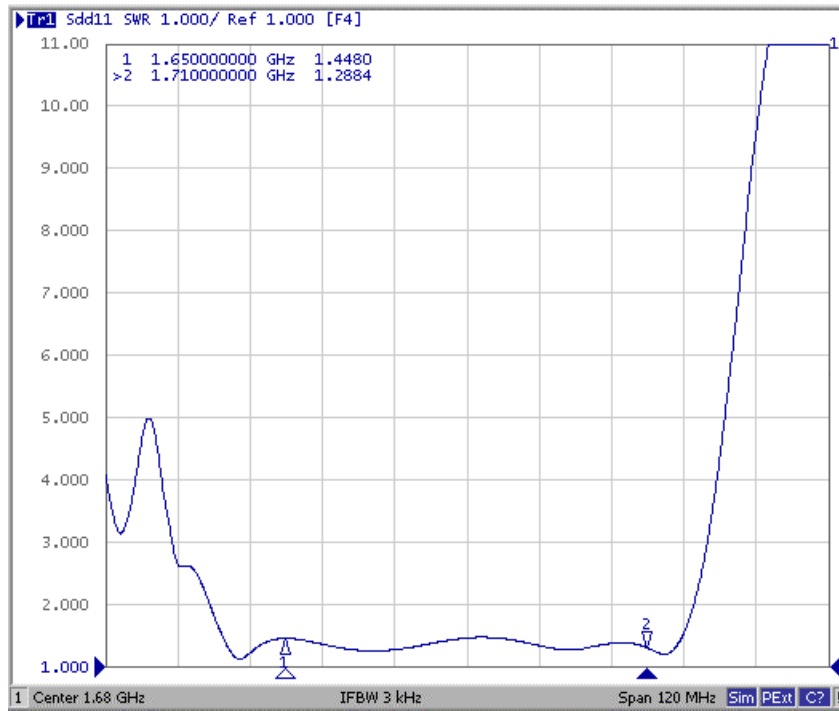
## F. Frequency Characteristics :



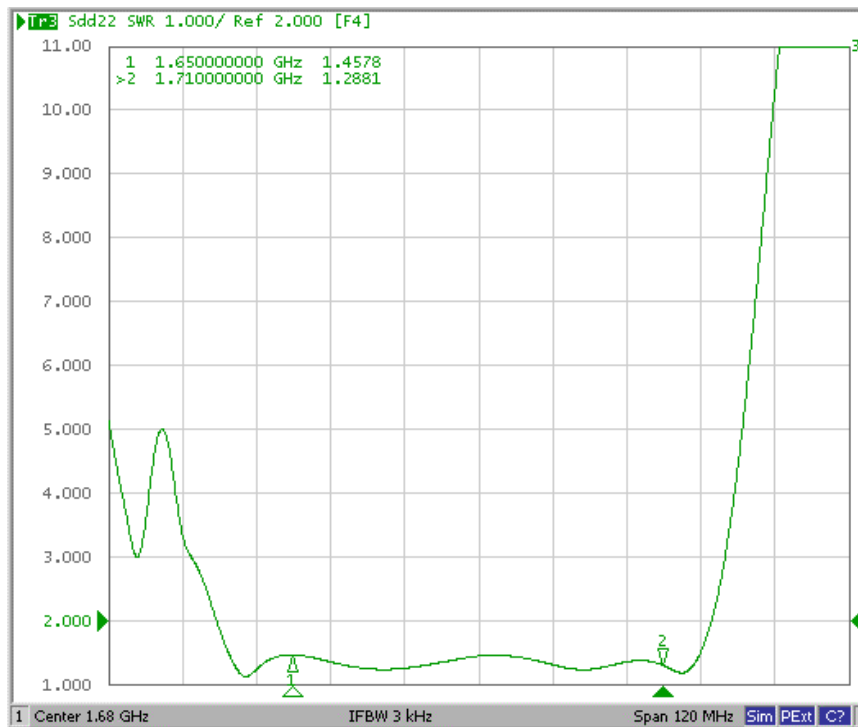


# Reflection Functions :

## S11



## S22







## H. RECOMMENDED REFLOW PROFILE :

