



# 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: Sep, 12, 2007

Product Name: SAW Filter 1790.48 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0728A

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

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

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

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

Date: \_\_\_\_\_ 9, 12, 2007



# 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)

## SAW Filter 1790.48 MHz

MODEL NO.:TA0728A

REV. NO.:2

### 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) :  $Z_s = 150 \Omega // 22 \text{ nH}$

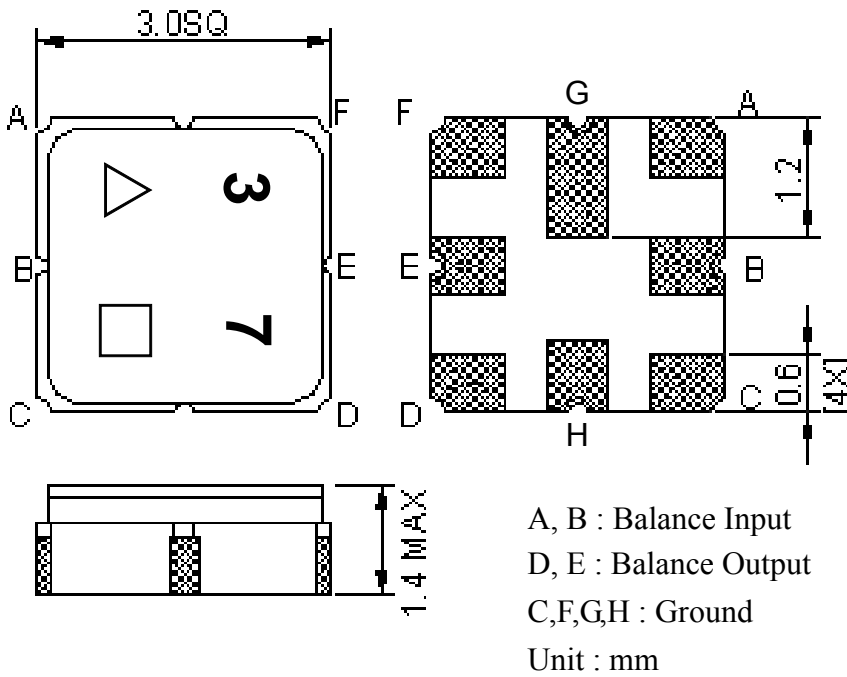
Terminating load impedance (differential) :  $Z_L = 150 \Omega // 22 \text{ nH}$

Item	Unit	Min.	Type.	Max.	Note
Center Frequency <b>Fc</b>	MHz	-	1790.48	-	-
Bandwidth at -2 dB	MHz	40	60	-	-
Insertion Loss in 1770.48~1810.48 MHz	dB	-	2.8	5	-
Amplitude ripple (1770.48 MHz ~ 1810.48 MHz)	dB	-	0.8	2	-
Phase error (1770.48 MHz ~ 1810.48 MHz) (3)	deg	-	1.2	5	-
Group Delay ripple(1770.48 MHz ~ 1810.48 MHz)	ns	-	8	25	-
I/O VSWR (1770.48 MHz ~ 1810.48 MHz)		-	1.8	2.5	-
<b>Attenuation (1)</b>					
50 ~ 1708.42 MHz	dB	44	49	-	-
1872.54 ~ 1912.5 MHz	dB	44	56	-	-
1912.5 ~ 4250 MHz	dB	38	41	-	-
4250 ~ 6000 MHz	dB	30	38	-	-

#### Notes :

- (1) The amplitude reference is insertion loss at Fc.
- (2) The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
- (3) The phase error is measured over any 30 MHz block of the given bandwidth.

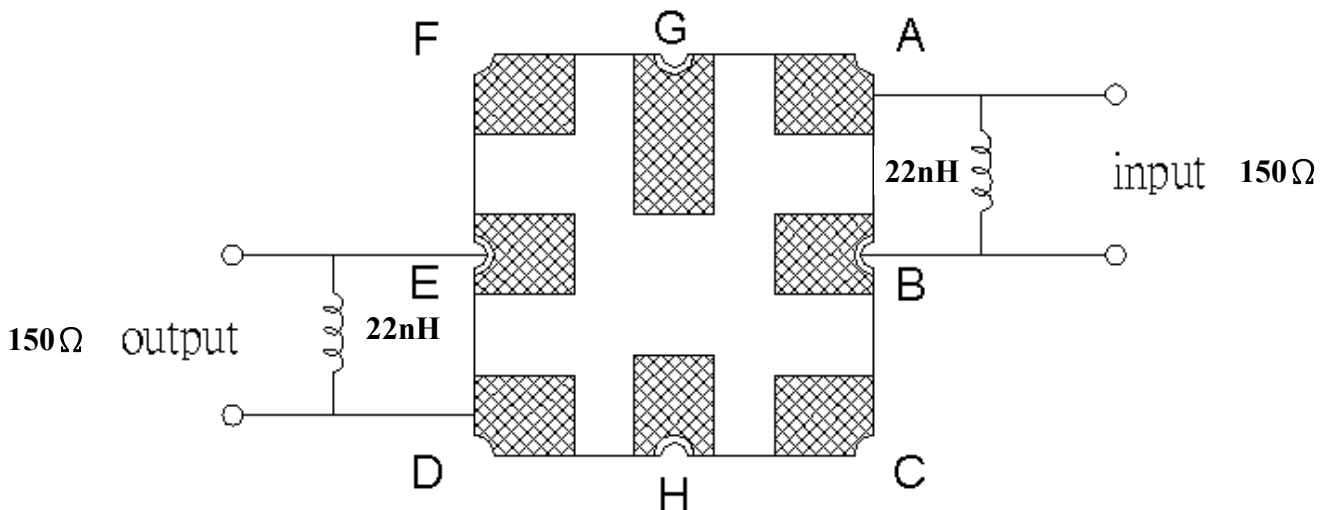
**C.OUTLINE DRAWING:**



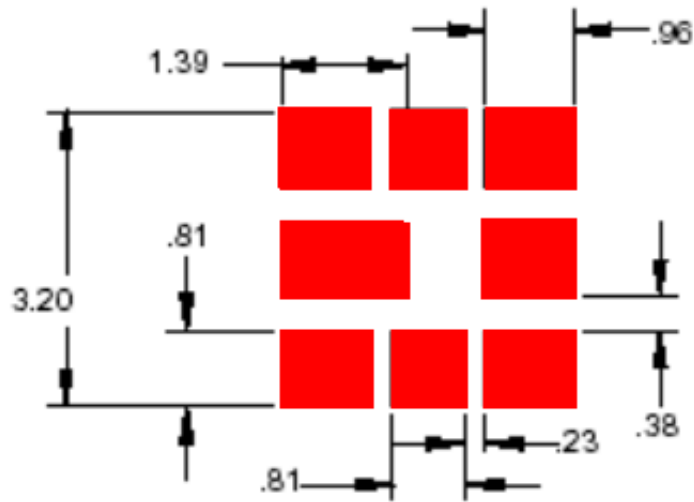
△ : Year Code (2006->6, ..., 2009->9)

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

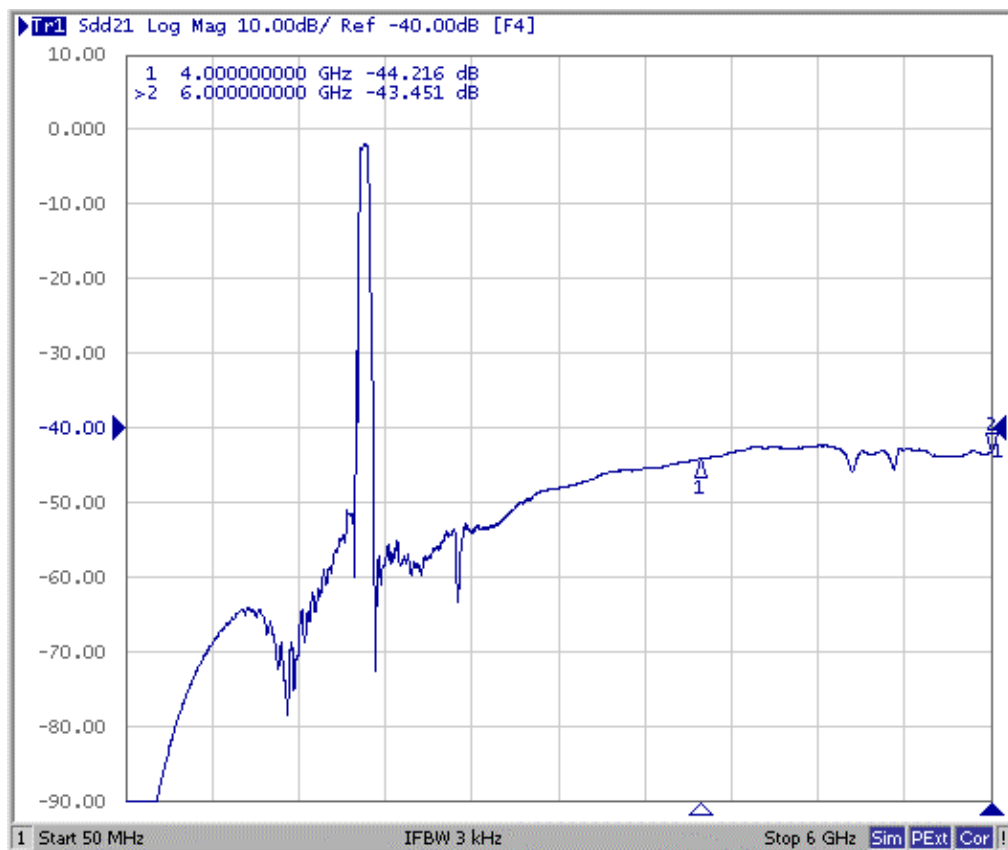
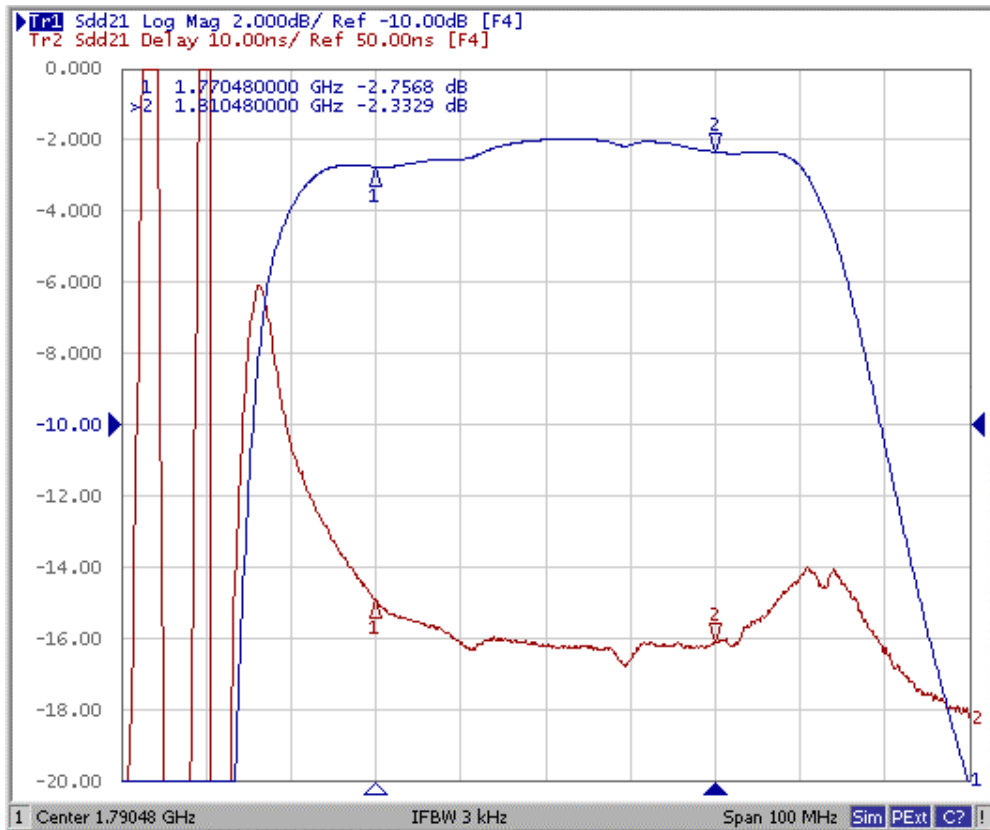
**D. MEASUREMENT CIRCUIT:**



E. PCB Footprint:

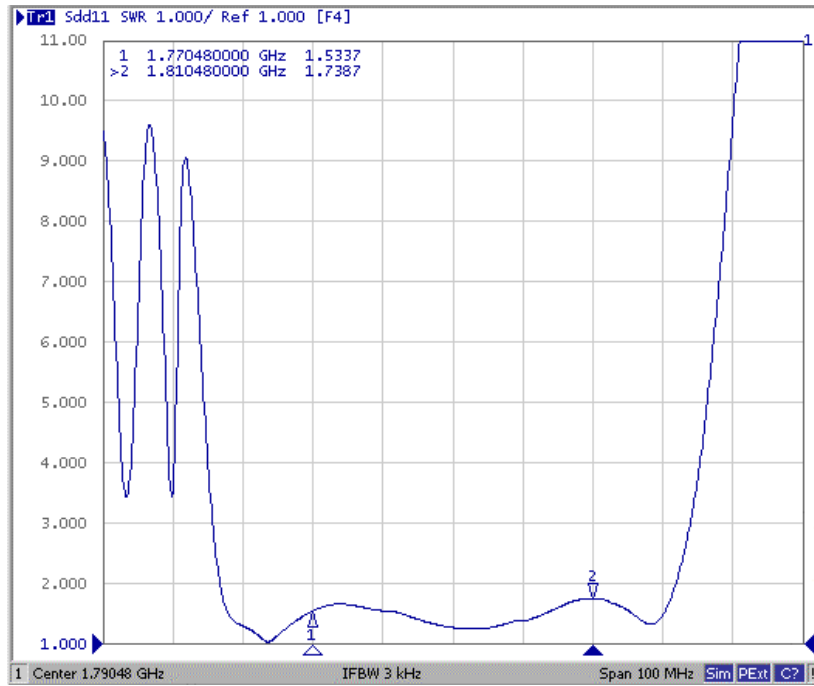


## F. Frequency Characteristics :

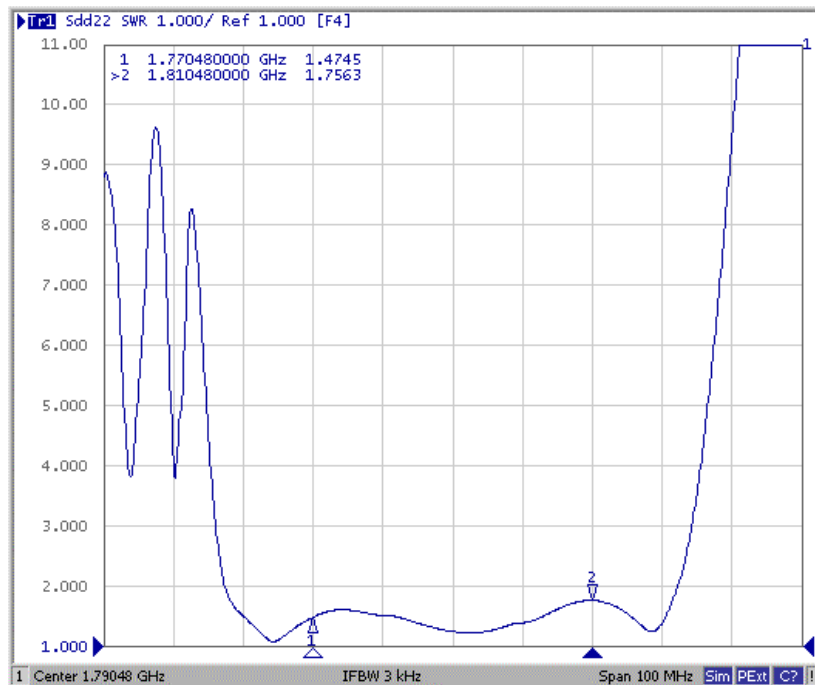


# Reflection Functions :

## S11



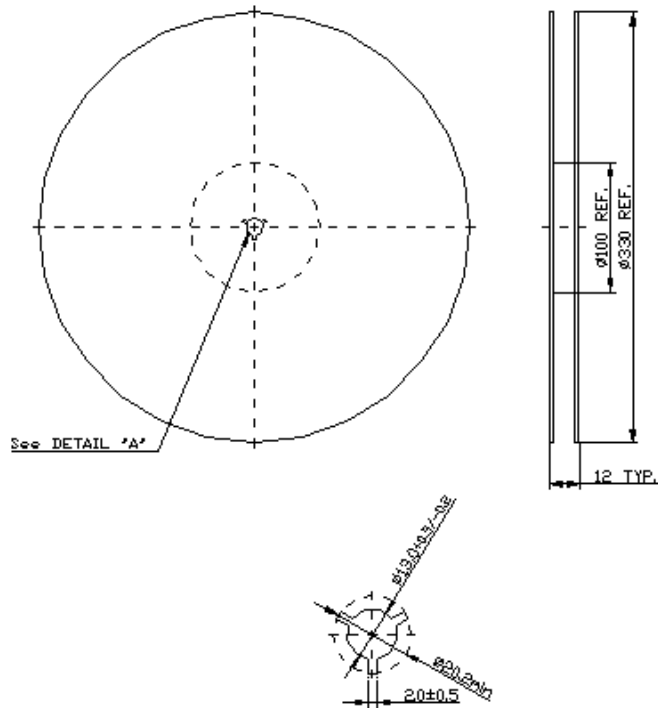
## S22



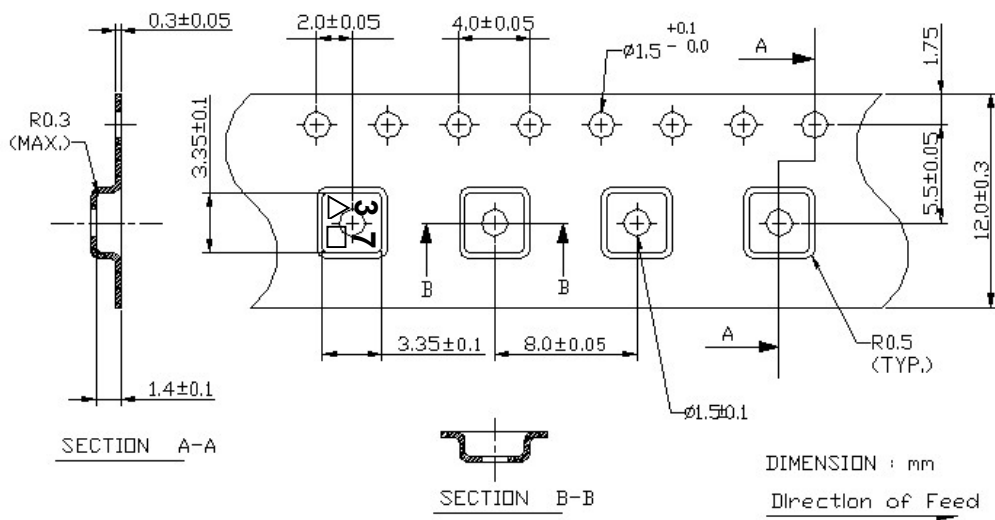
**G. PACKING:**

**1. REEL DIMENSION**

(Reel Count : 7''=1000 ; 13''=3000 )



**2.TAPE DIMENSION**



## H. RECOMMENDED REFLOW PROFILE :

