



# 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, 3, 2008

Product Name: SAW Filter 2040 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0892A

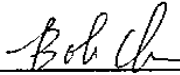
Customer Parts No.: \_\_\_\_\_

Company: \_\_\_\_\_

Division: \_\_\_\_\_

Approved by : \_\_\_\_\_

Date: \_\_\_\_\_

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

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

Date: \_\_\_\_\_ 9, 3, 2008



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## SAW Filter 2040 MHz

MODEL NO.:TA0892A

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) :  $Z_s = 150 \ \Omega \ // \ 18 \text{ nH}$

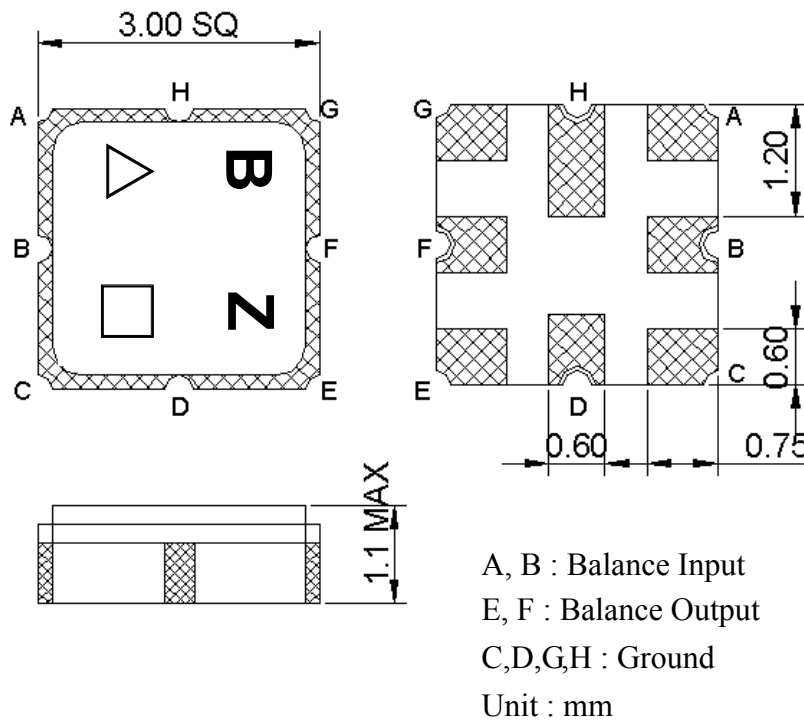
Terminating load impedance (differential) :  $Z_L = 150 \ \Omega \ // \ 18 \text{ nH}$

| Item                                          | Unit | Min. | Typ. | Max. | Note |
|-----------------------------------------------|------|------|------|------|------|
| <b>Center Frequency</b> <b>Fc</b>             | MHz  | -    | 2040 | -    | -    |
| <b>Bandwidth at -2 dB</b>                     | MHz  | 60   | 77   | -    | -    |
| <b>Insertion Loss</b> in 2010~2070 MHz        | dB   | -    | 3.3  | 5    | -    |
| <b>Amplitude ripple</b> (2010 MHz ~ 2070 MHz) | dB   | -    | 1.4  | 2    | -    |
| <b>Phase error</b> (2010 MHz ~ 2070 MHz) (3)  | deg  | -    | 2.5  | 5    | -    |
| <b>I/O VSWR</b> (2010 MHz ~ 2070 MHz)         |      | -    | 1.9  | 2.5  | -    |
| <b>CMDR</b> (2010 MHz ~ 2070 MHz)             | dB   | 23   | 27   | -    | -    |
| <b>Attenuation</b> (1)                        |      |      |      |      |      |
| 50 ~ 1950 MHz                                 | dB   | 42   | 45   | -    | -    |
| 2130 ~ 3000 MHz                               | dB   | 42   | 50   | -    | -    |
| 3000 ~ 4000 MHz                               | dB   | 35   | 42   | -    | -    |
| 4000 ~ 6000 MHz                               | dB   | 30   | 37   | -    | -    |

#### 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.

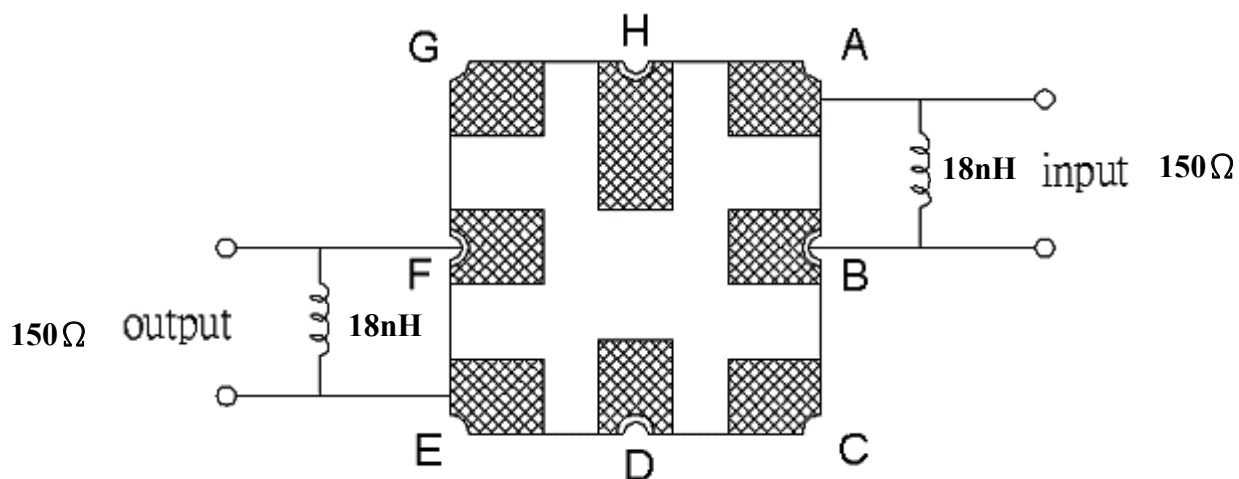
### C.OUTLINE DRAWING:



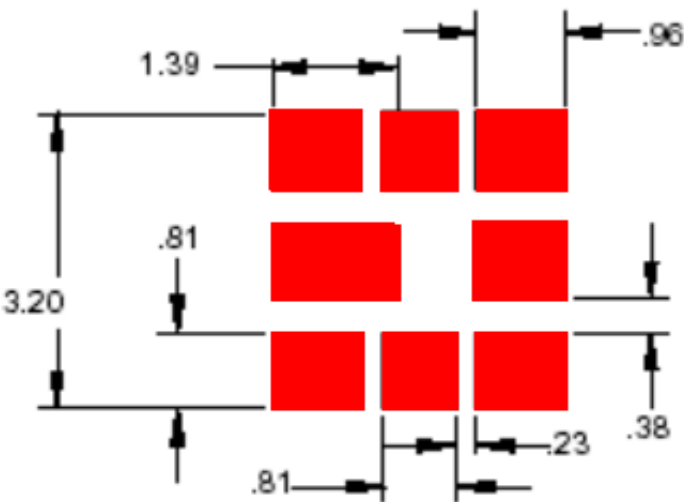
△ : Year Code (2006->6, ..., 2009->9)

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

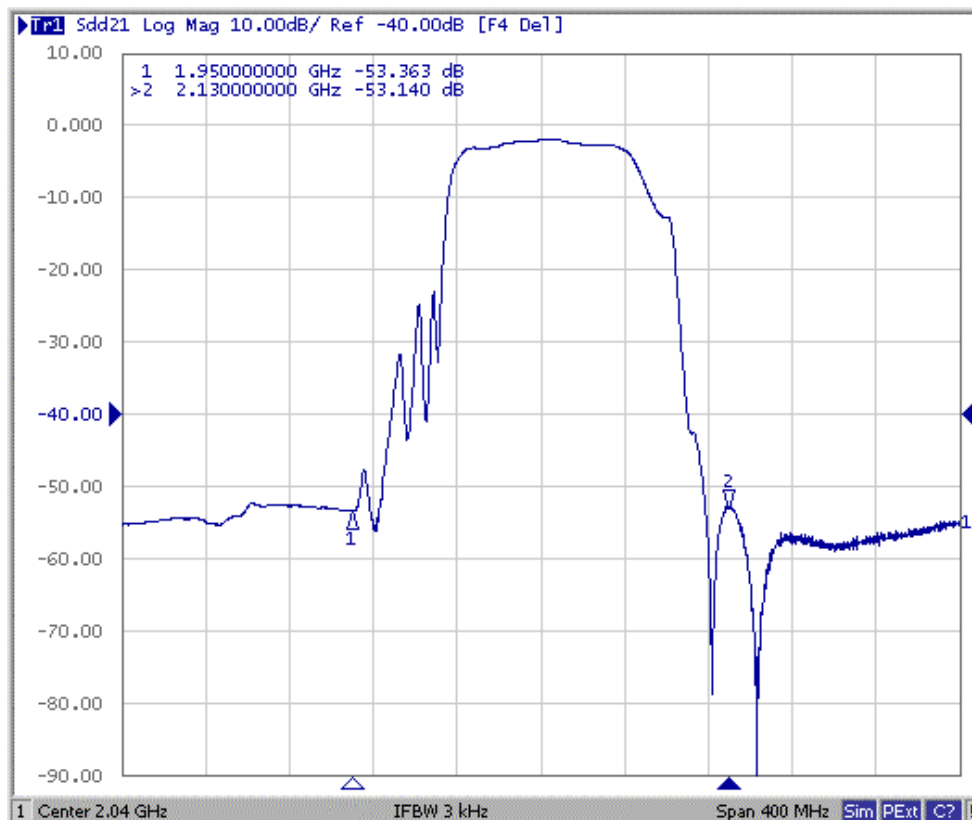
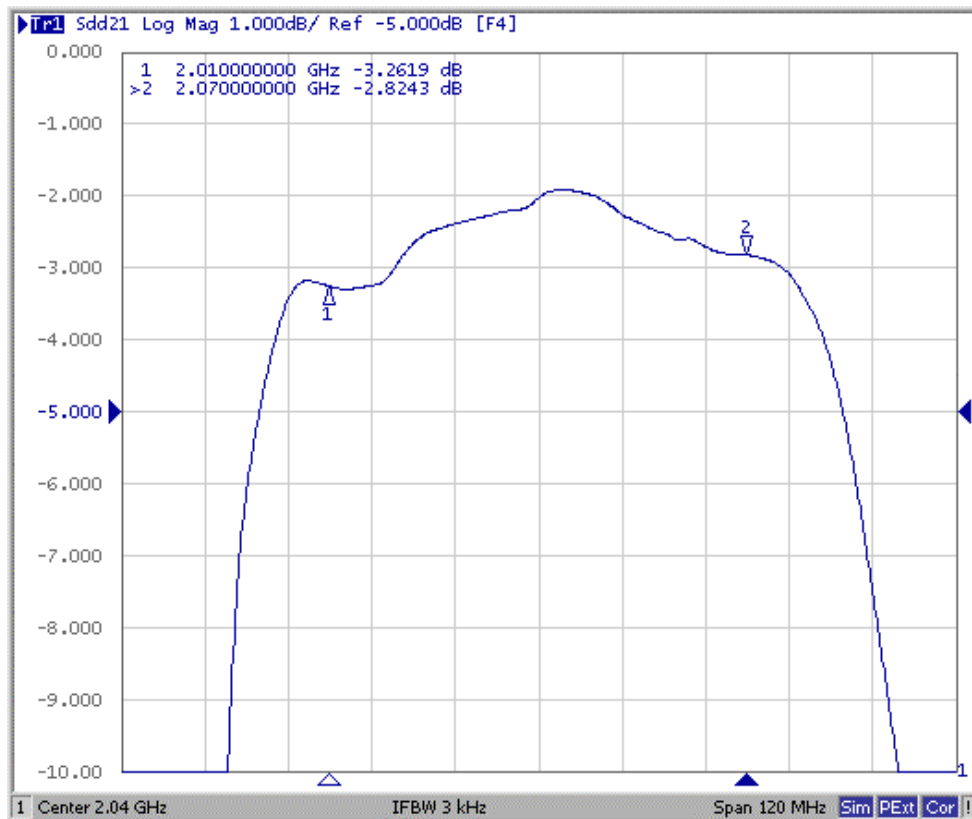
### D. MEASUREMENT CIRCUIT:

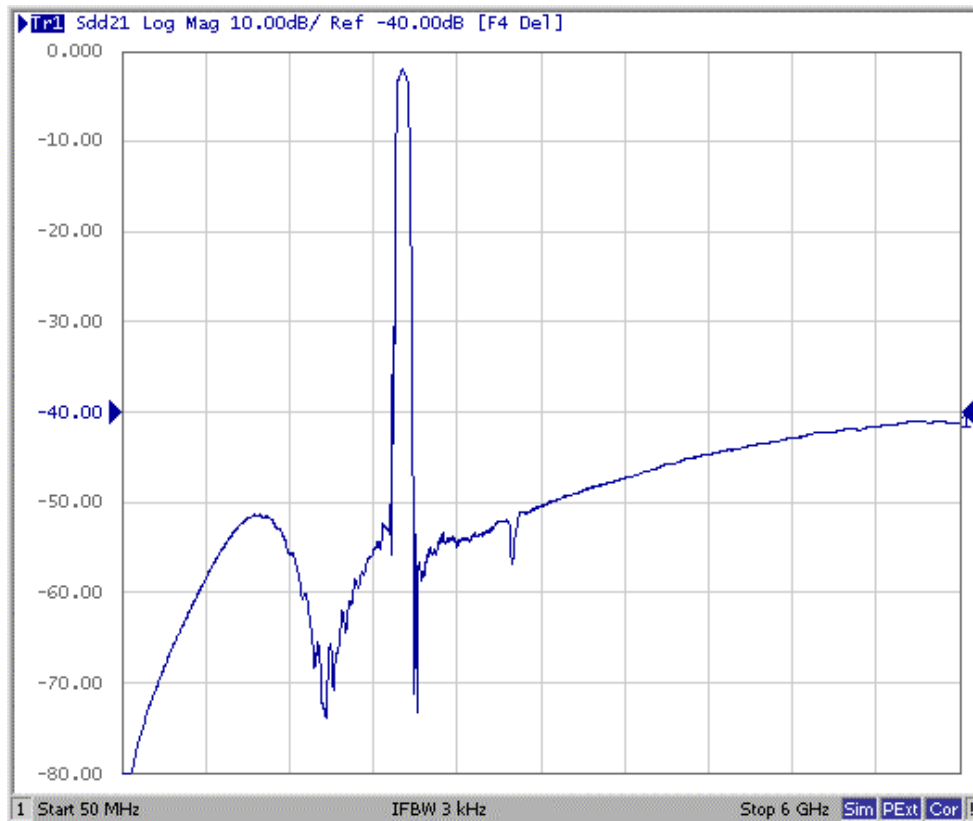


E. PCB Footprint:



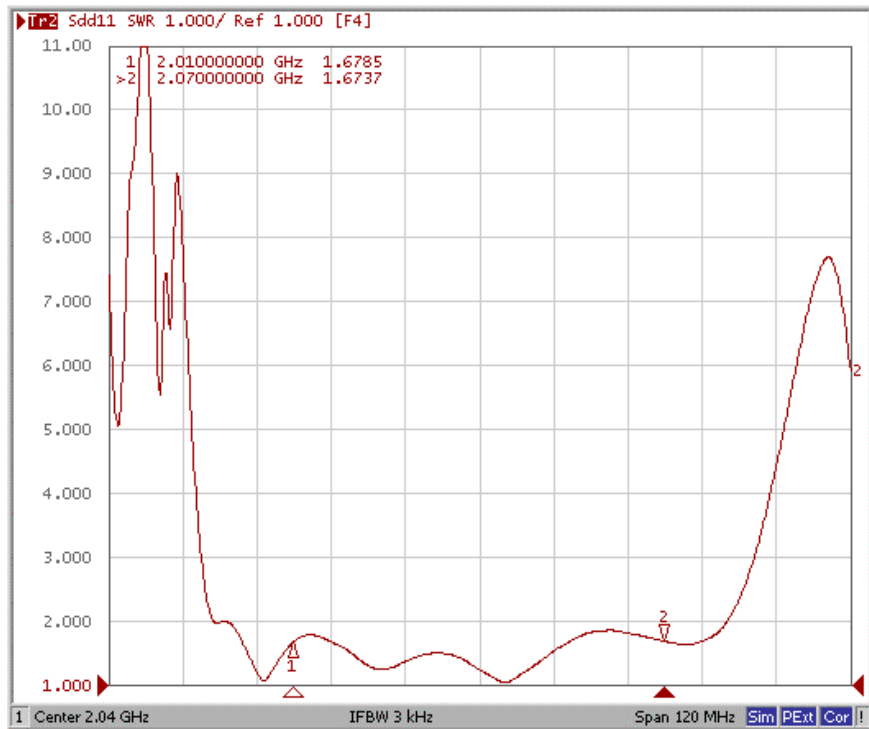
## F. Frequency Characteristics :



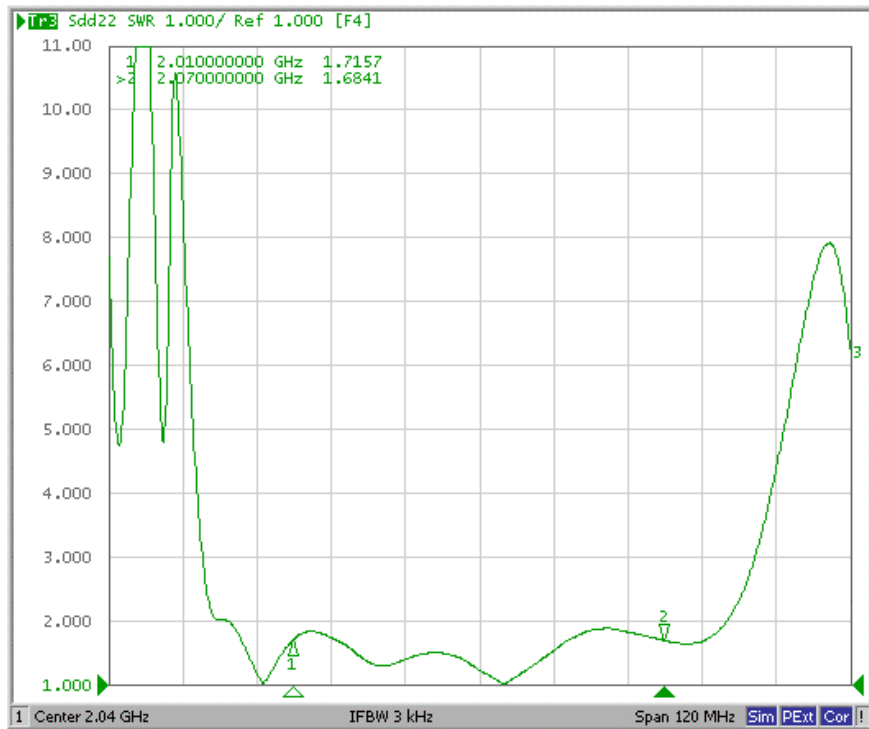


Reflection Functions :

S11



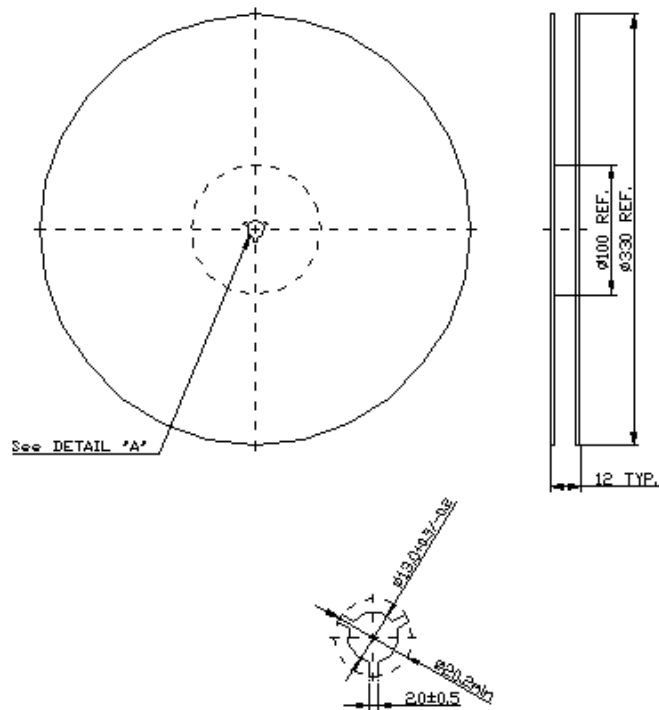
S22



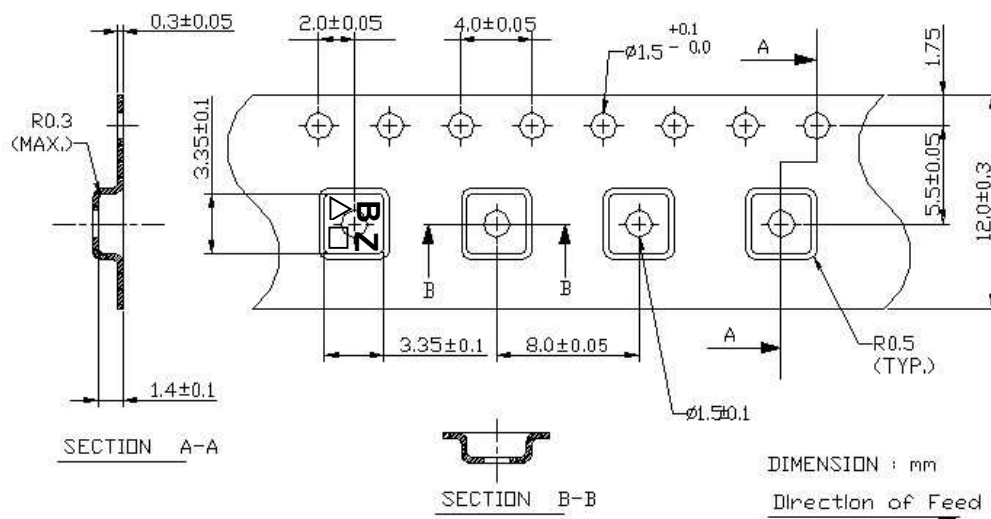
## G. PACKING:

### 1. REEL DIMENSION

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



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

