



## TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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### Approval Sheet For Product Specification

Issued Date: Jul, 18, 2007

Product Name: SAW Filter 1076.06 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0696A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 7, 18, 2007



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## SAW Filter 1076.06 MHz

MODEL NO.:TA0696A

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) :  $Z_s = 150 \ \Omega \ // \ 39 \text{ nH}$

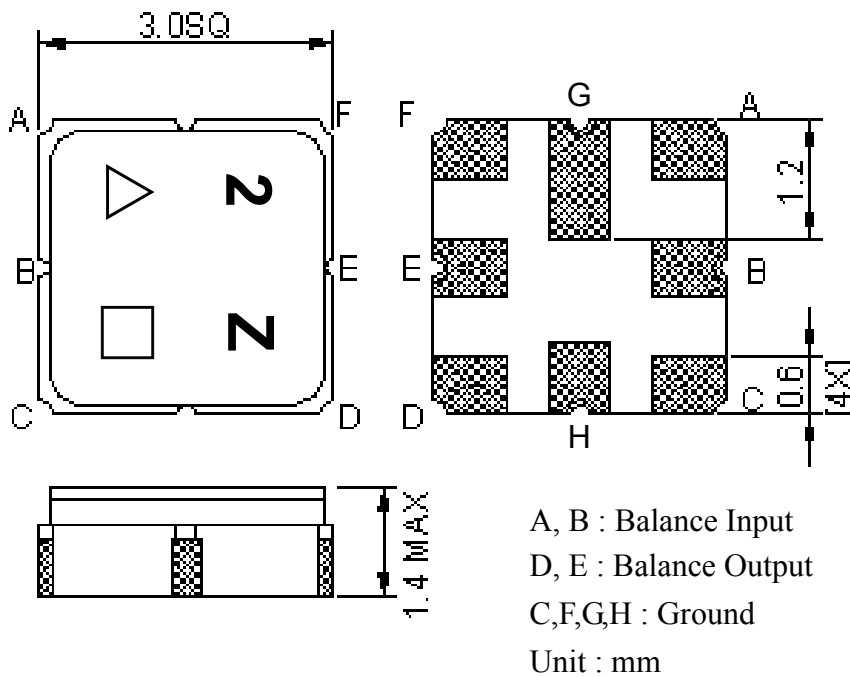
Terminating load impedance (differential) :  $Z_L = 150 \ \Omega \ // \ 39 \text{ nH}$

| Item                                         | Unit | Min. | Type.   | Max. | Note |
|----------------------------------------------|------|------|---------|------|------|
| Center Frequency <b>Fc</b>                   | MHz  | -    | 1076.06 | -    | -    |
| Bandwidth at -2.7 dB                         | MHz  | 40   | 47      | -    | -    |
| Min. Insertion Loss in 1056.06~1096.06 MHz   | dB   | -    | 1.6     | 5    | -    |
| Amplitude ripple (1056.06 MHz ~ 1096.06 MHz) | dB   | -    | 1.5     | 2.7  | -    |
| Phase error (1056.06 MHz ~ 1096.06 MHz) (3)  | deg  | -    | 5       | 6.5  | -    |
| I/O VSWR (1056.06 MHz ~ 1096.06 MHz)         |      | -    | 2.4     | 2.8  | -    |
| <b>Attenuation (1)</b>                       |      |      |         |      |      |
| 50 ~ 994 MHz                                 | dB   | 43   | 46      | -    | -    |
| 1158.12 ~ 1850 MHz                           | dB   | 40   | 43      | -    | -    |
| 1850 ~ 3000 MHz                              | dB   | 35   | 38      | -    | -    |
| 3000 ~ 6000 MHz                              | dB   | 30   | 33      | -    | -    |

#### 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.

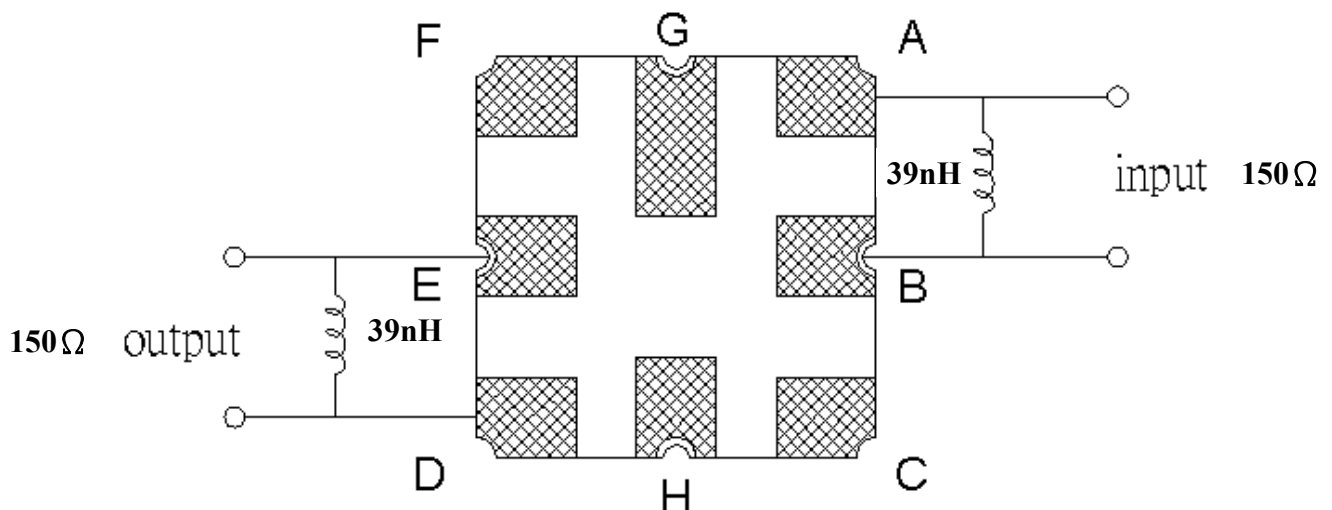
### C. OUTLINE DRAWING:



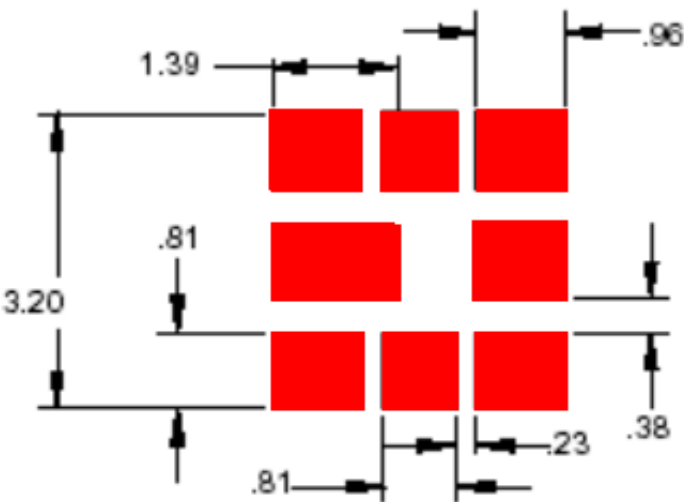
△ : Year Code (2006->6, ..., 2009->9)

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

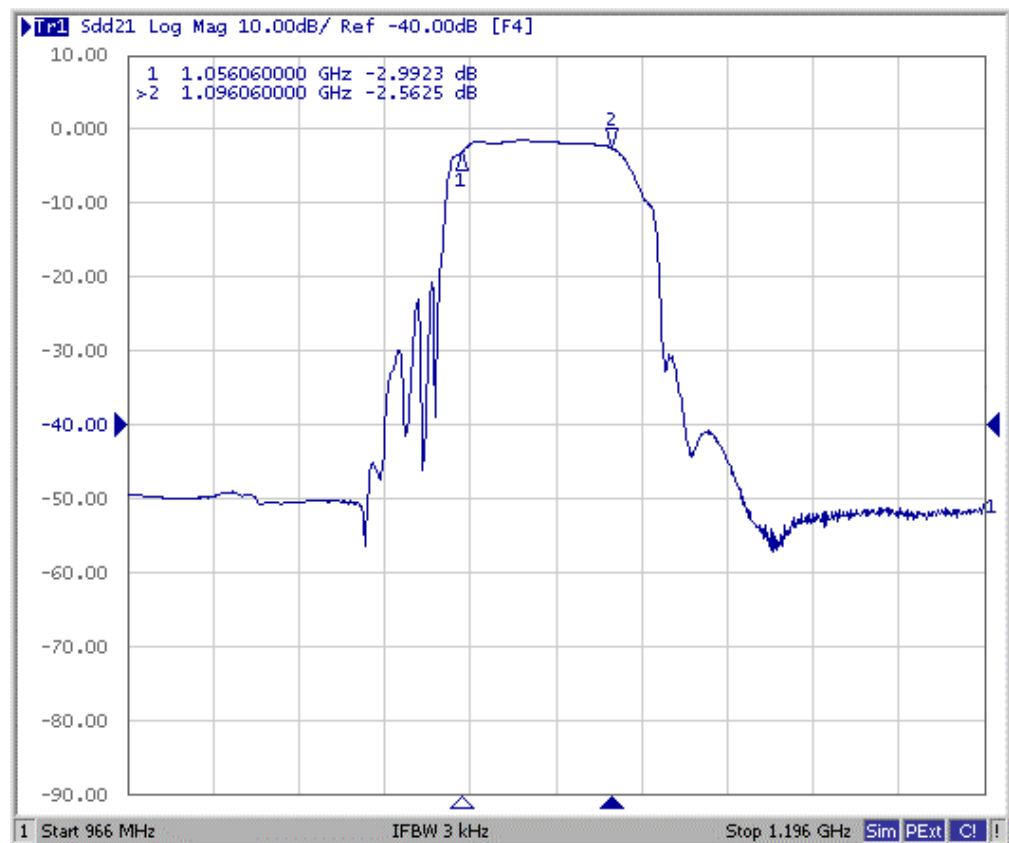
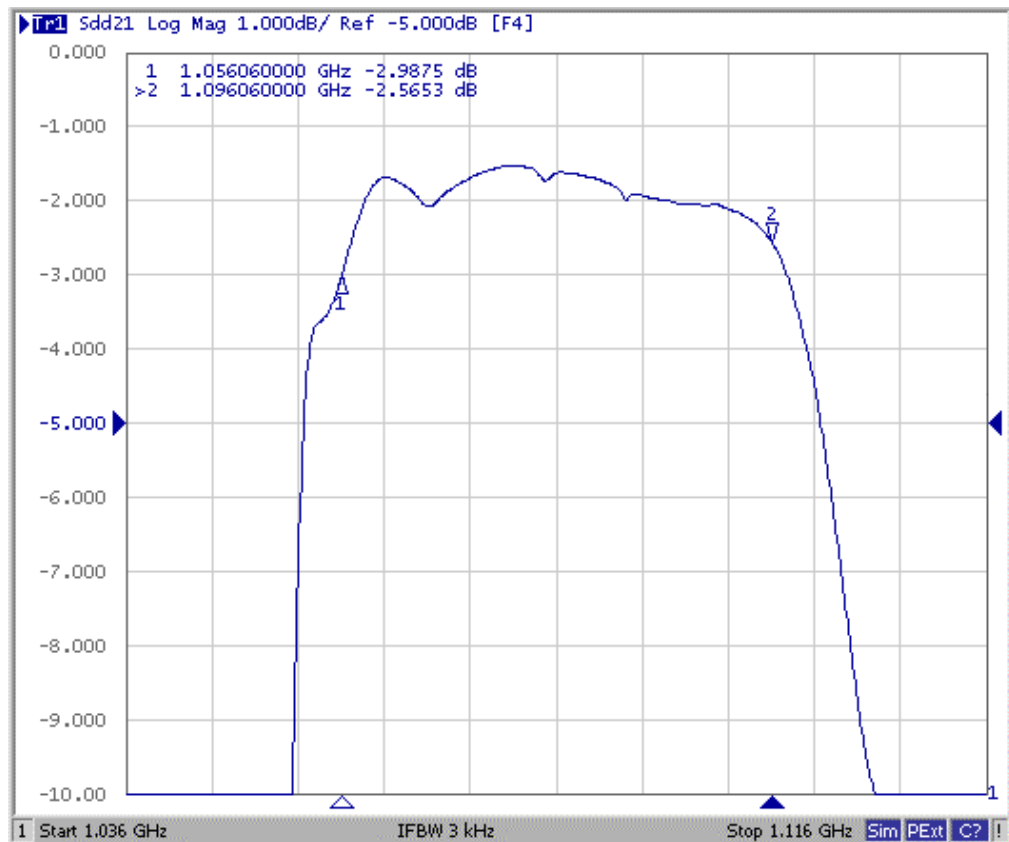
### D. MEASUREMENT CIRCUIT:

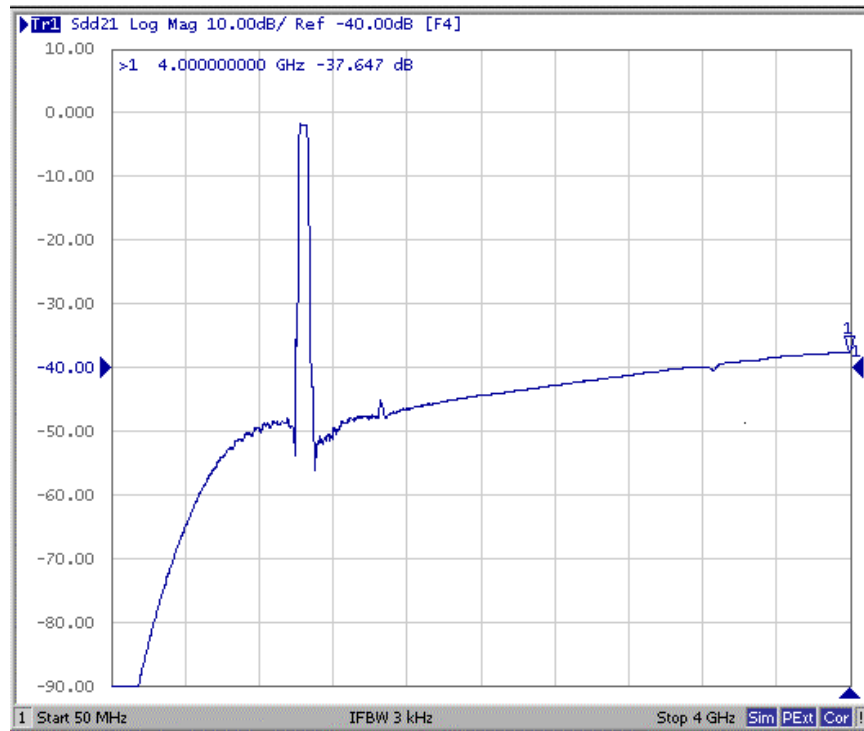


E. PCB Footprint:



## F. Frequency Characteristics :

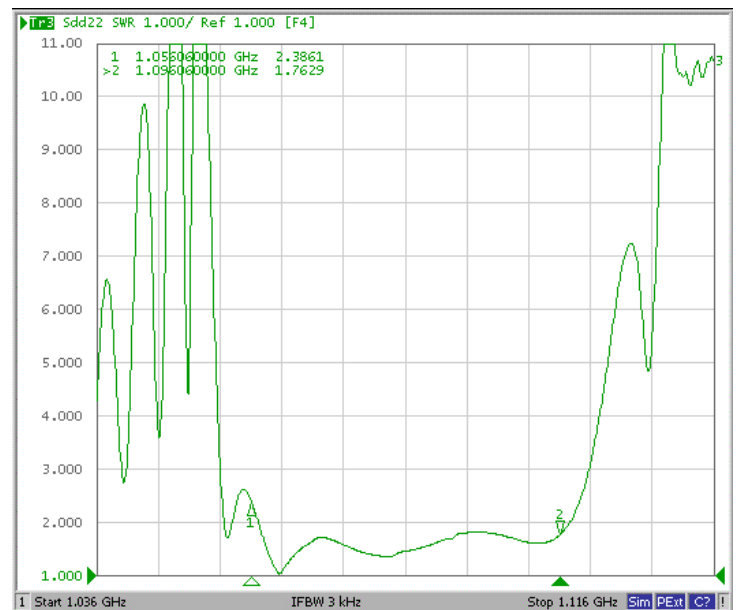
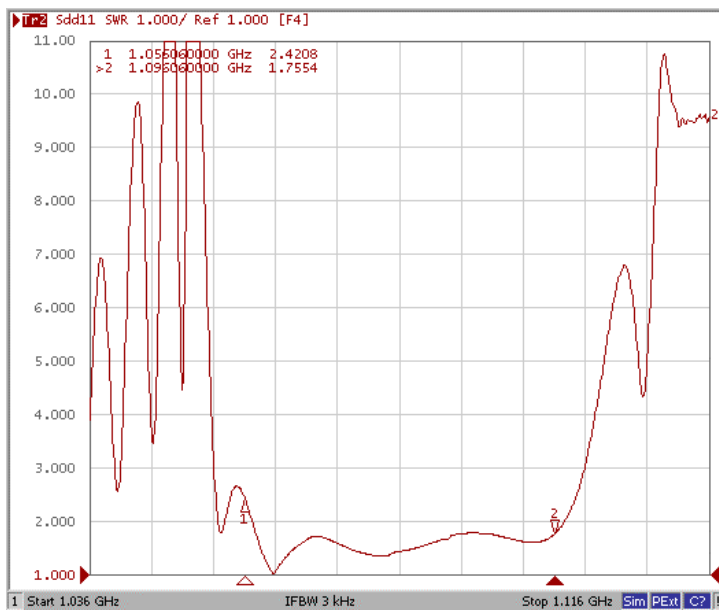




Reflection Functions :

S11

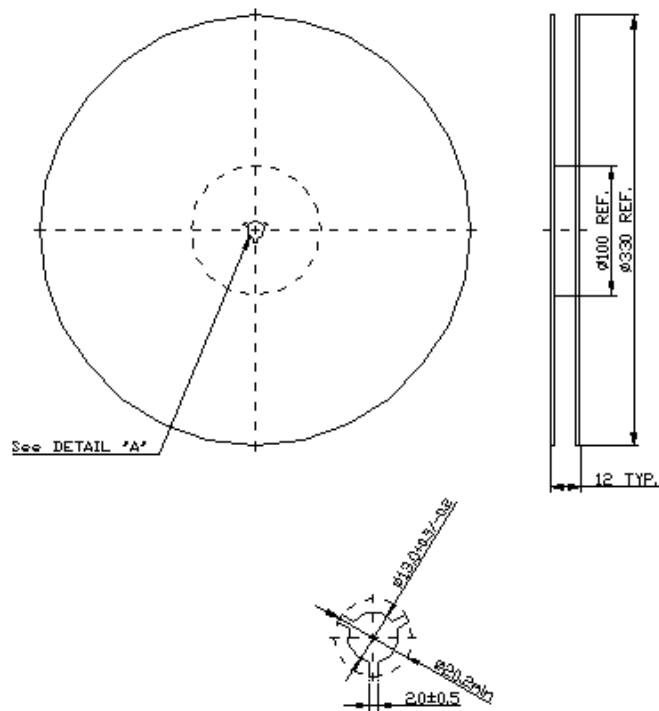
S22



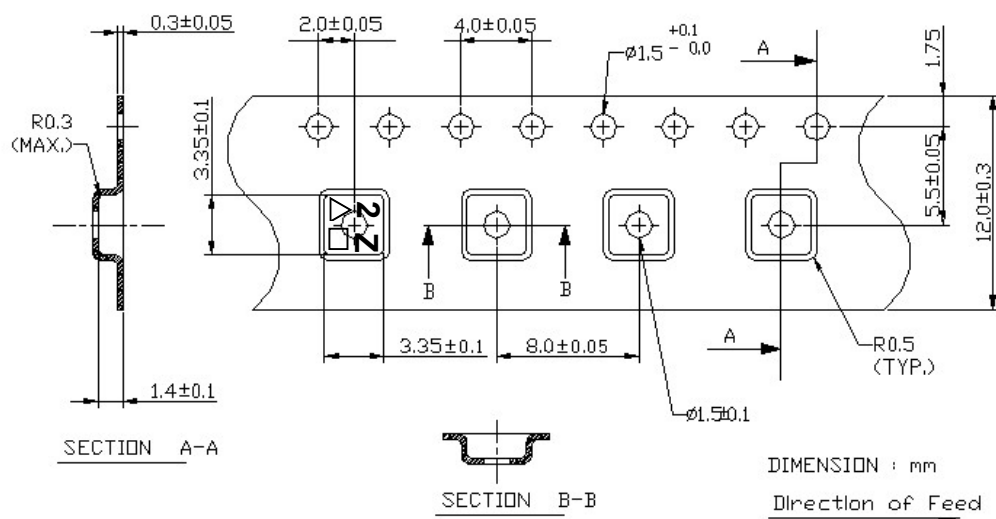
## G. PACKING:

### 1. REEL DIMENSION

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



### 2.TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

