



# 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: Dec, 27, 2007

Product Name: SAW Filter 1645 MHz SMD 3.0X3.0 mm

TST Parts No.: TA0789A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 12, 27, 2007



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## SAW Filter 1645 MHz

MODEL NO.:TA0789A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

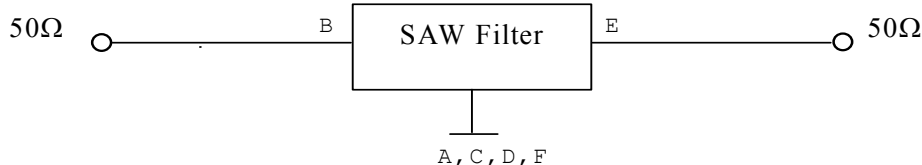
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS: ( Ambient temperature : 25°C )

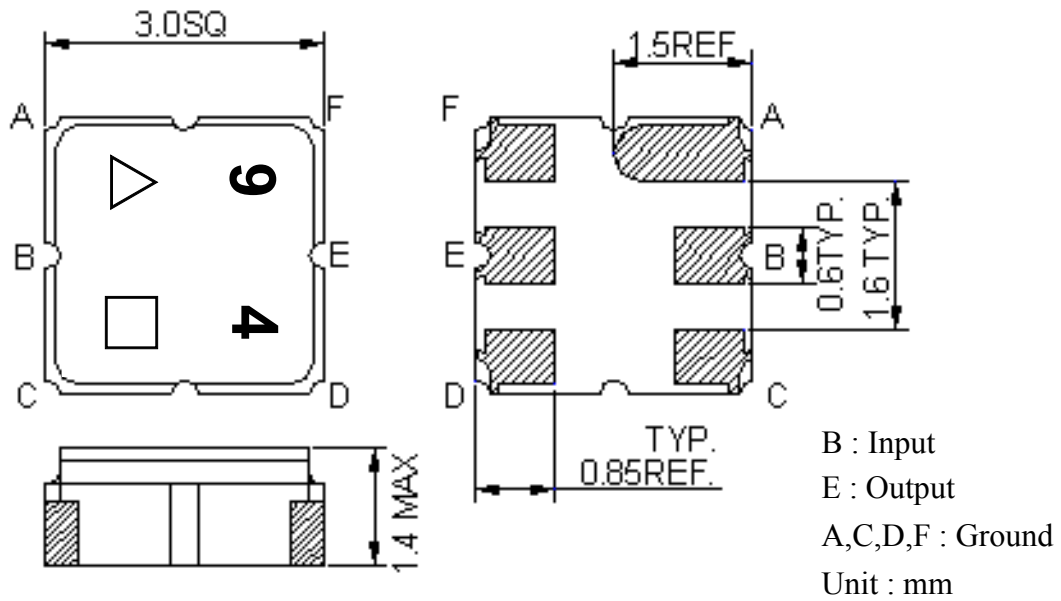
| Item                                        | Unit | Min.       | Type. | Max. | Note |
|---------------------------------------------|------|------------|-------|------|------|
| Center Frequency Fc                         | MHz  | -          | 1645  | -    | -    |
| Min. Insertion Loss IL                      | dB   | -          | 4     | 5    | -    |
| Amplitude Ripple (1635.5 ~ 1654.5 MHz)      | dB   | -          | 1     | 2    | -    |
| VSWR (1635.5 ~ 1654.5 MHz)                  |      | -          | 2     | 2.3  | -    |
| Group Delay Variation (1635.5 ~ 1654.5 MHz) | ns   | -          | 5     | 12   |      |
| Attenuation (Reference level from 0 dB)     |      |            |       |      |      |
| 10 ~ 1580 MHz                               | dB   | 35         | 52    | -    | -    |
| 1700 ~ 3000 MHz                             | dB   | 35         | 46    | -    | -    |
| Temperature Coefficient of Frequency        |      | -36 Ppm/°C |       |      |      |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



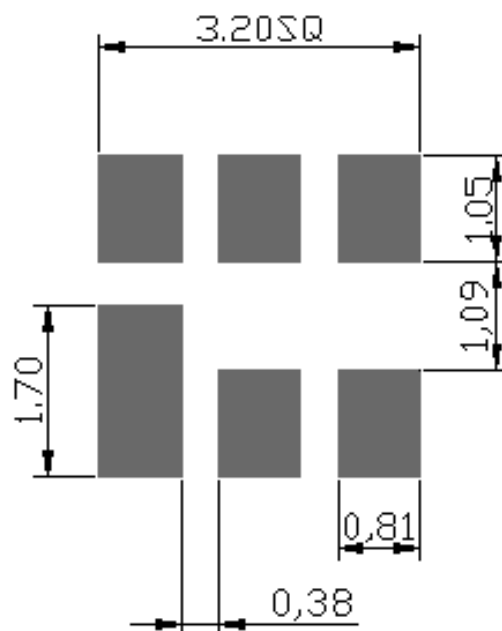
## D.OUTLINE DRAWING:



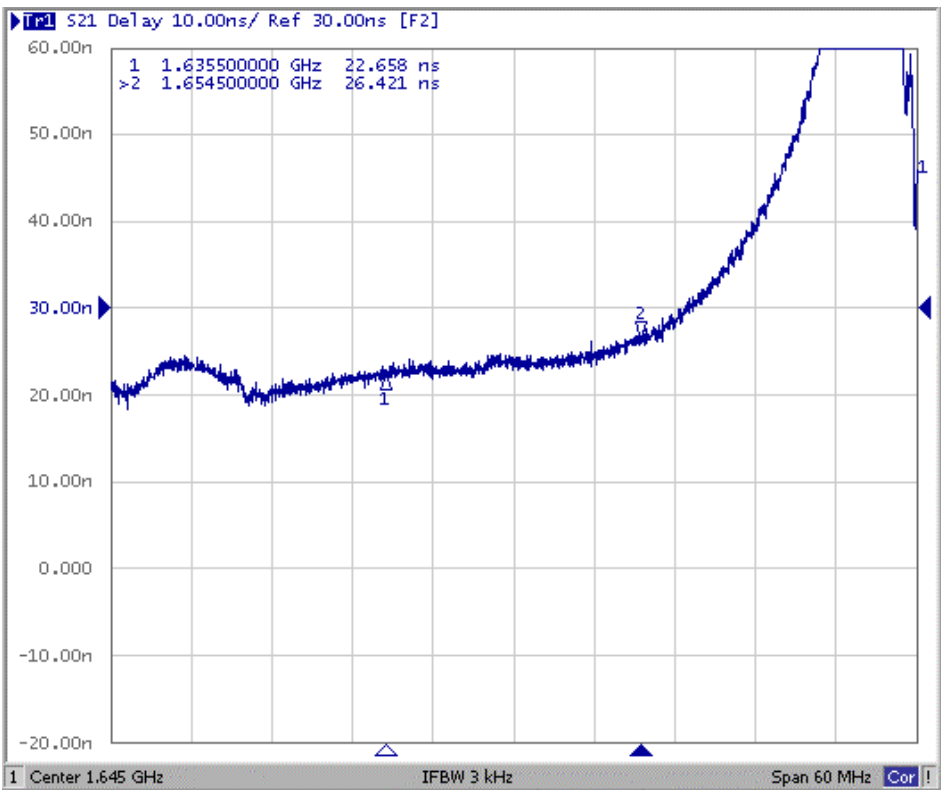
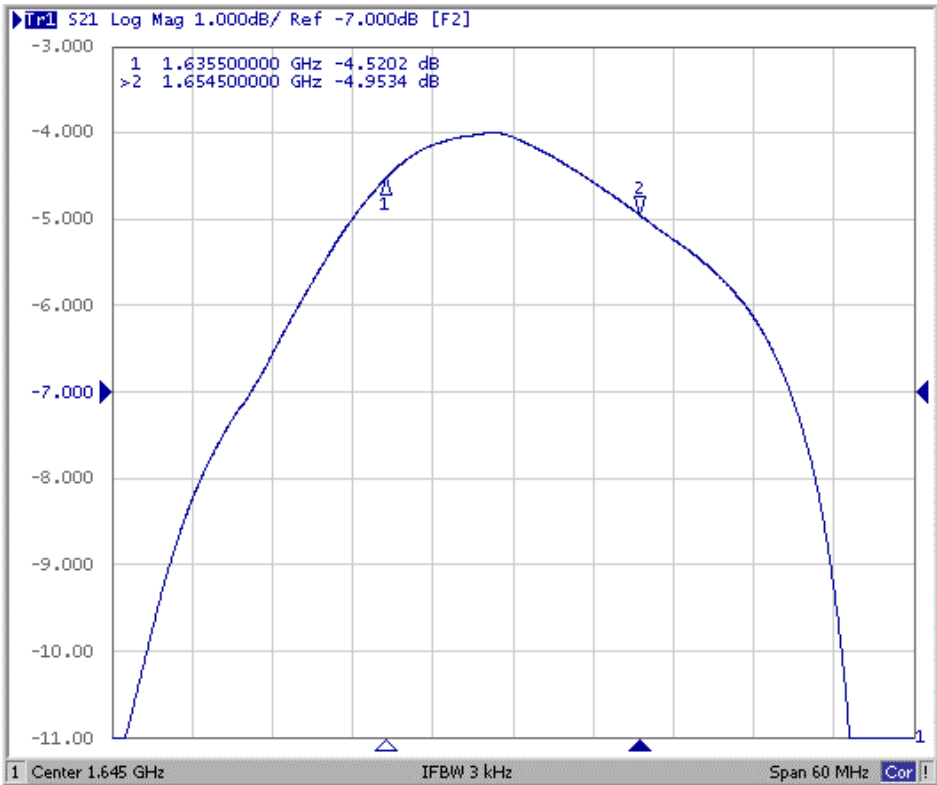
△ : Year Code (2006->6, ..., 2009->9)

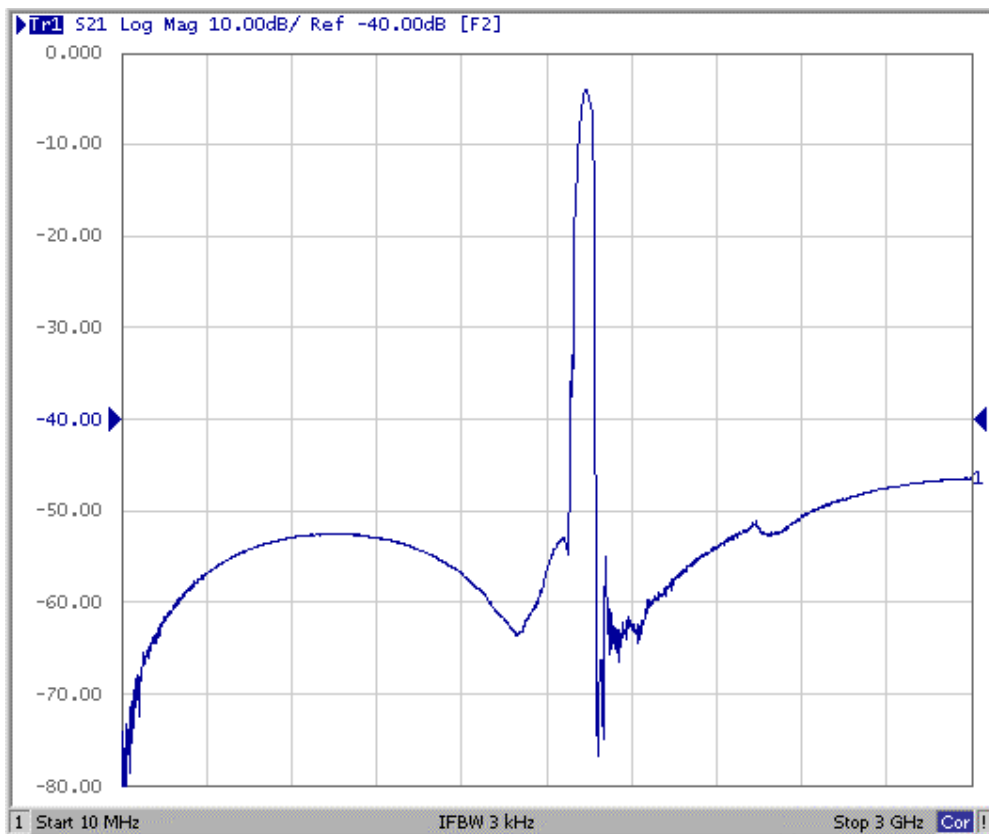
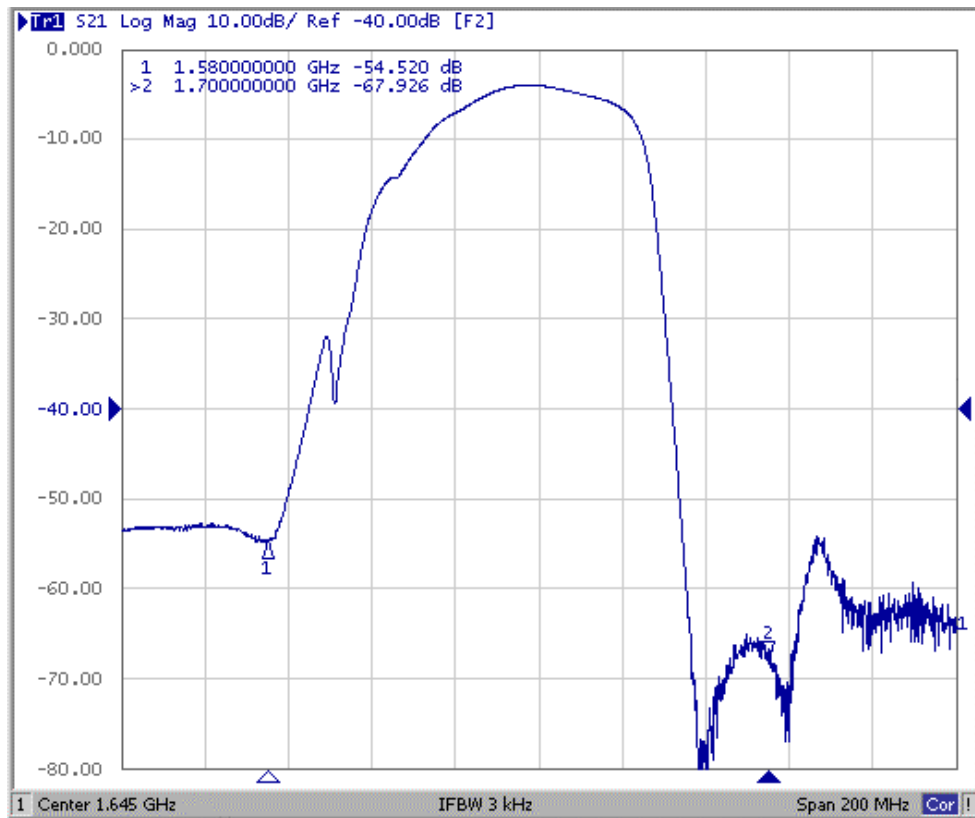
□ : Date Code (Follow the table from planner each year)

## E. PCB Footprint:



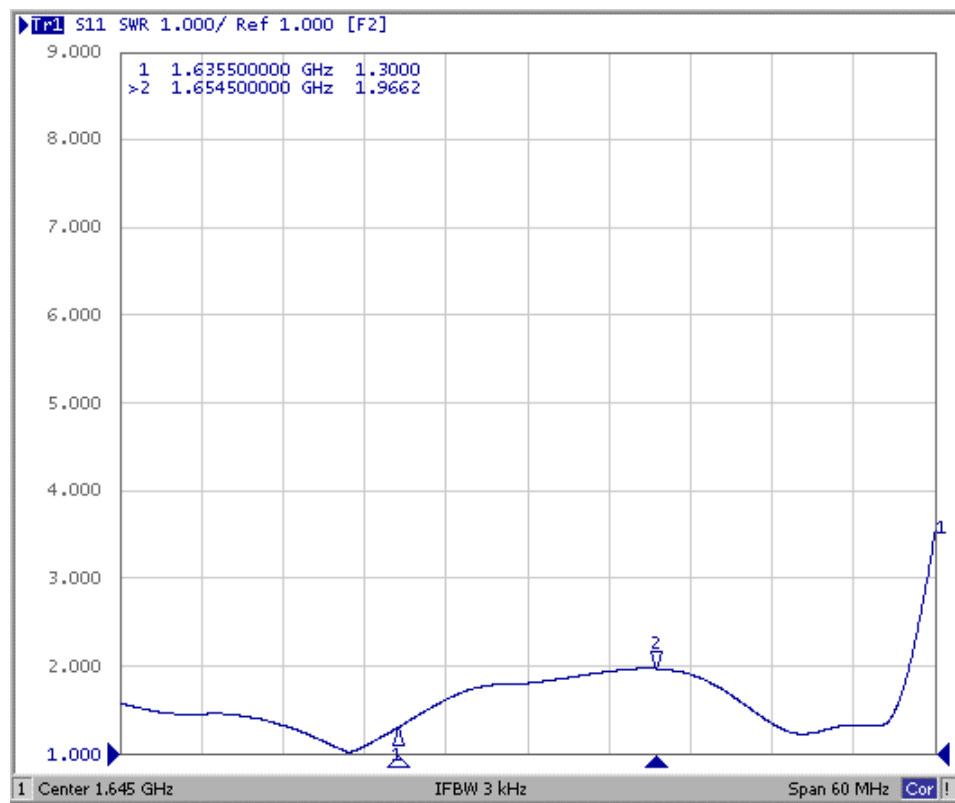
F. Frequency Characteristics :



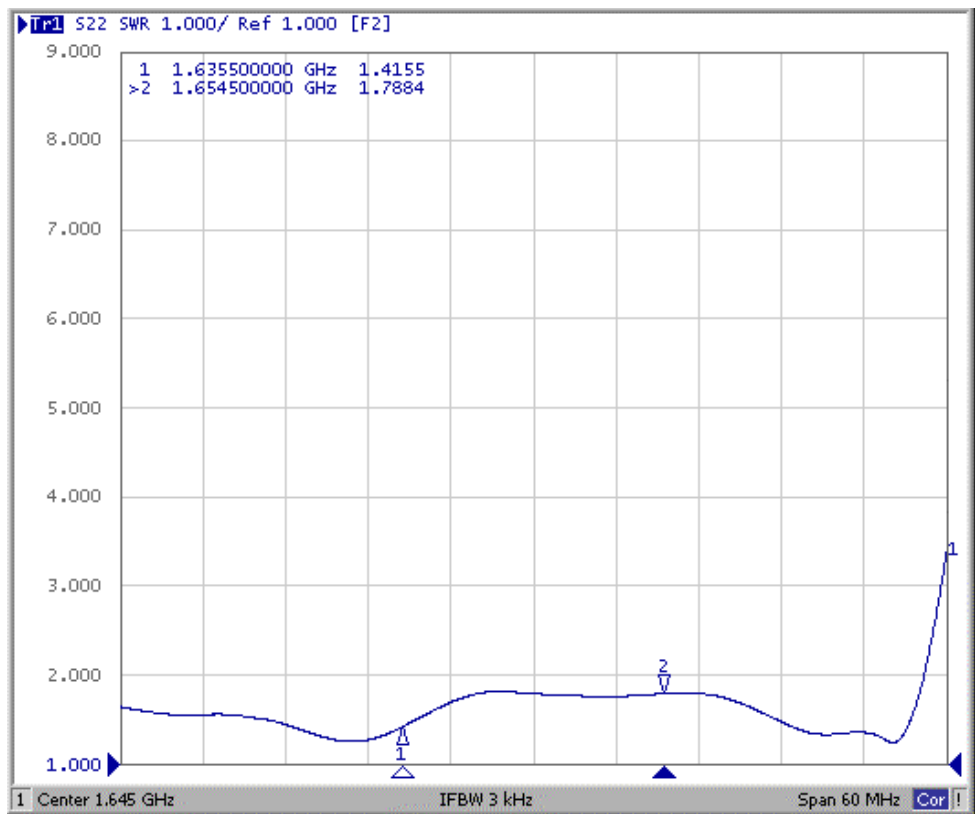


Reflection Functions :

S11



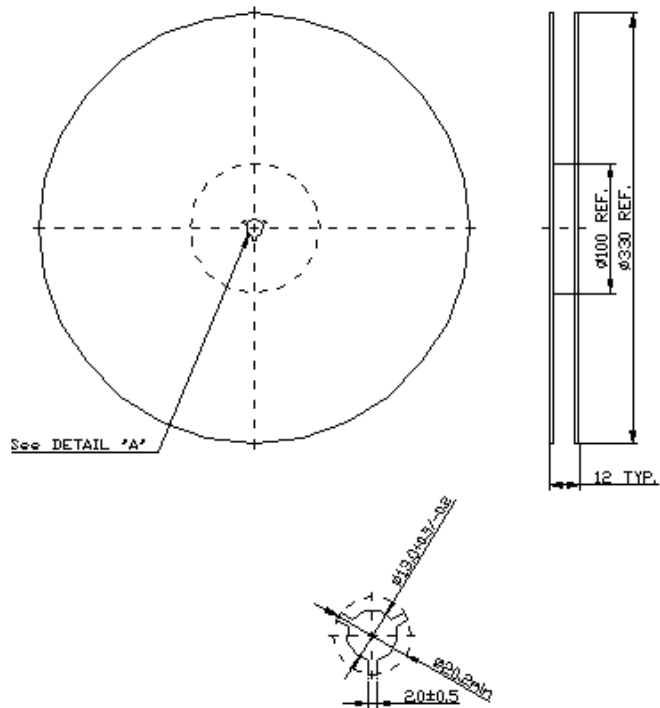
S22



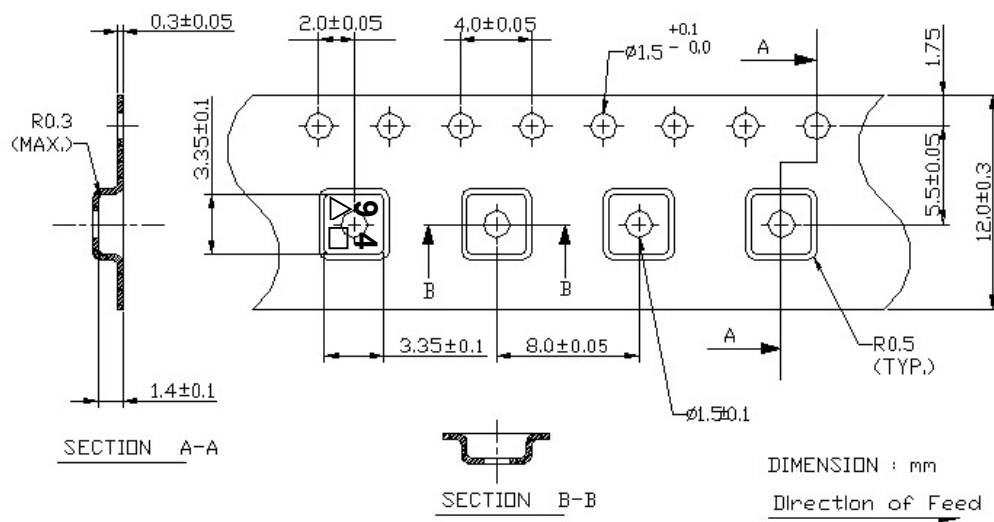
### **G. PACKING:**

## 1. REEL DIMENSION

**(Reel Count : 7"=1000 ; 13"=3000 )**



## 2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

