



# 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: February, 16, 2007

Product Name: SAW Filter 1965 MHz SMD 3.0X3.0 mm

TST Parts No.:TA0630A

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

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

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

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

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

Checked by:\_\_\_\_\_ Paul Ni

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

Date:\_\_\_\_\_ 02, 16, 2007



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## SAW Filter 1965 MHz

MODEL NO.: TA0630A

REV. NO : 1.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

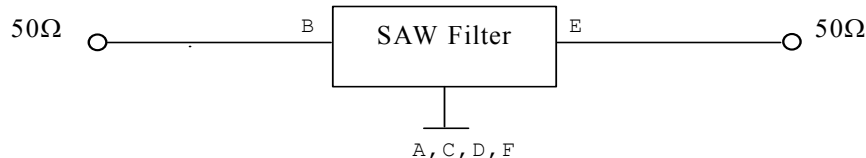
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

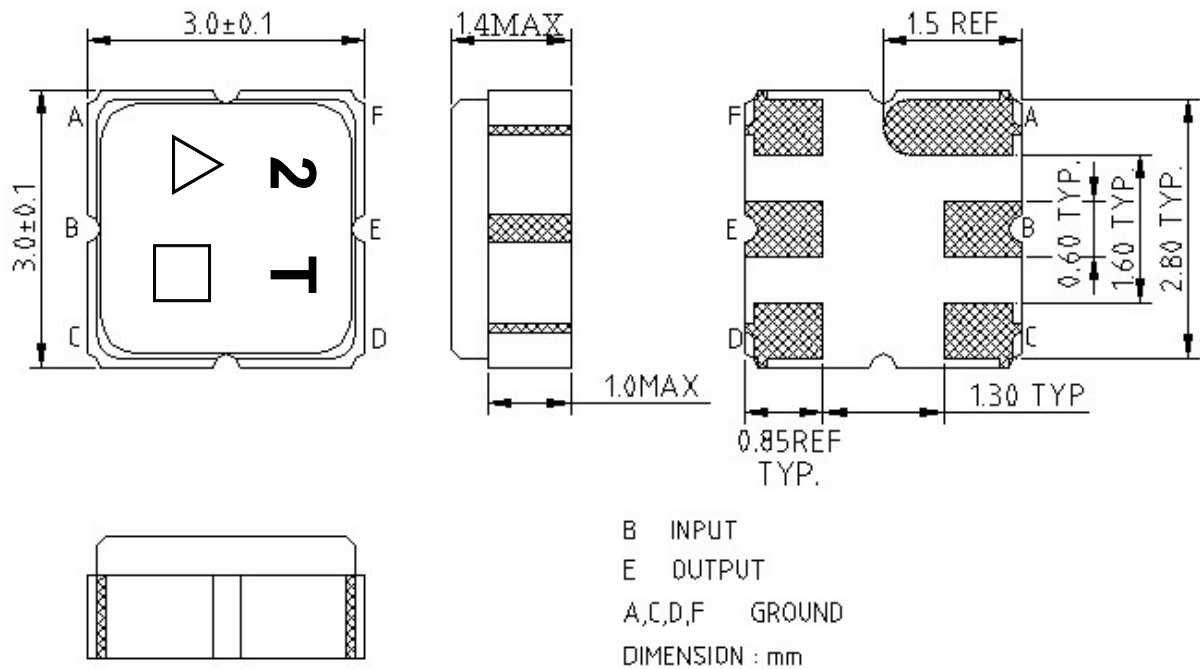
| Item                                                | Min. | Typ. | Max. |
|-----------------------------------------------------|------|------|------|
| Center frequency <b>F<sub>c</sub></b> (dB)          | -    | 1965 | -    |
| Insertion loss within 1930 ~2000 MHz <b>IL</b> (dB) | -    | 2.4  | 3.8  |
| Amplitude ripple (p-p) within 1930 ~ 2000 MHz (dB)  | -    | 1.3  | 2.5  |
| <b>Attenuation</b> (Reference level from 0 dB)      |      |      |      |
| D.C. ~ 1622.5 MHz (dB)                              | 14.0 | 24.5 | -    |
| 1622.5 ~ 1832.5 MHz (dB)                            | 15.0 | 26.0 | -    |
| 1832.5 ~ 1907.5 MHz (dB)                            | 10.0 | 18.5 | -    |
| 2042.5 ~ 3242.5 MHz (dB)                            | 17.0 | 29.0 | -    |
| 3242.5 ~ 4000 MHz (dB)                              | 14.0 | 30.0 | -    |
| VSWR within 1930 ~2000 MHz                          | -    | 1.9  | 2.6  |
| Source impedance <b>Z<sub>s</sub></b> (Ω)           | -    | 50   | -    |
| Load impedance <b>Z<sub>L</sub></b> (Ω)             | -    | 50   | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



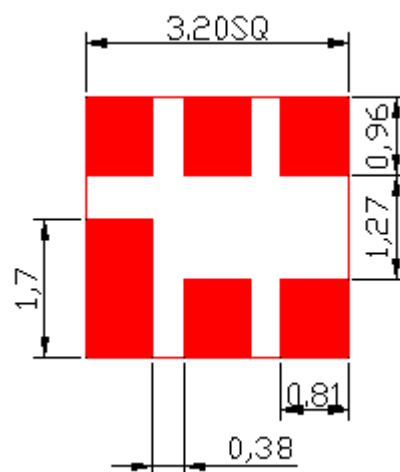
## D.OUTLINE DRAWING:



$\triangle$  : Year Code(2007→7,···2009→9)

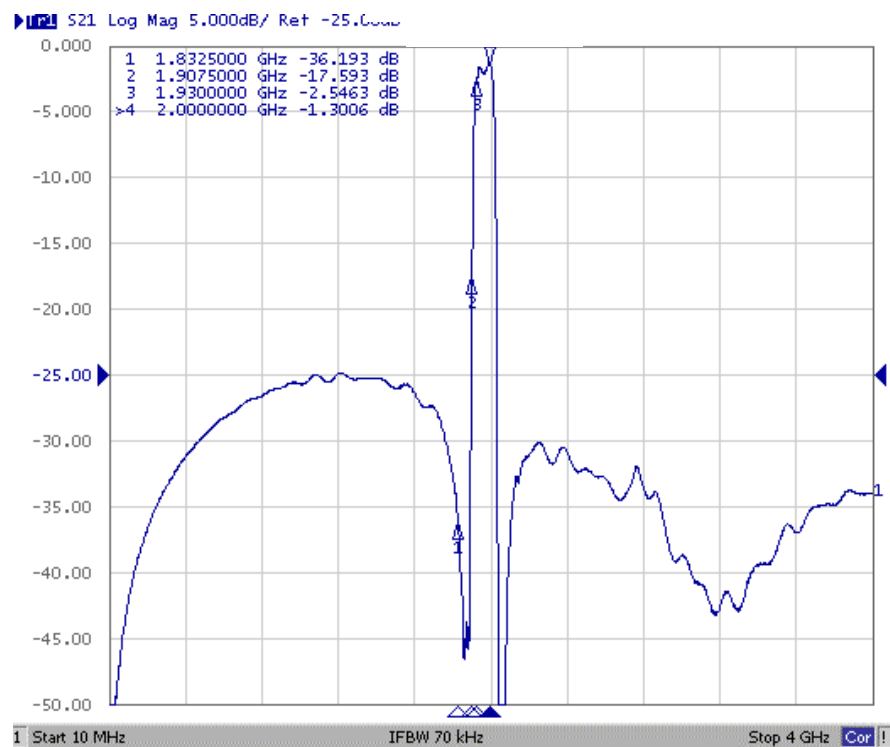
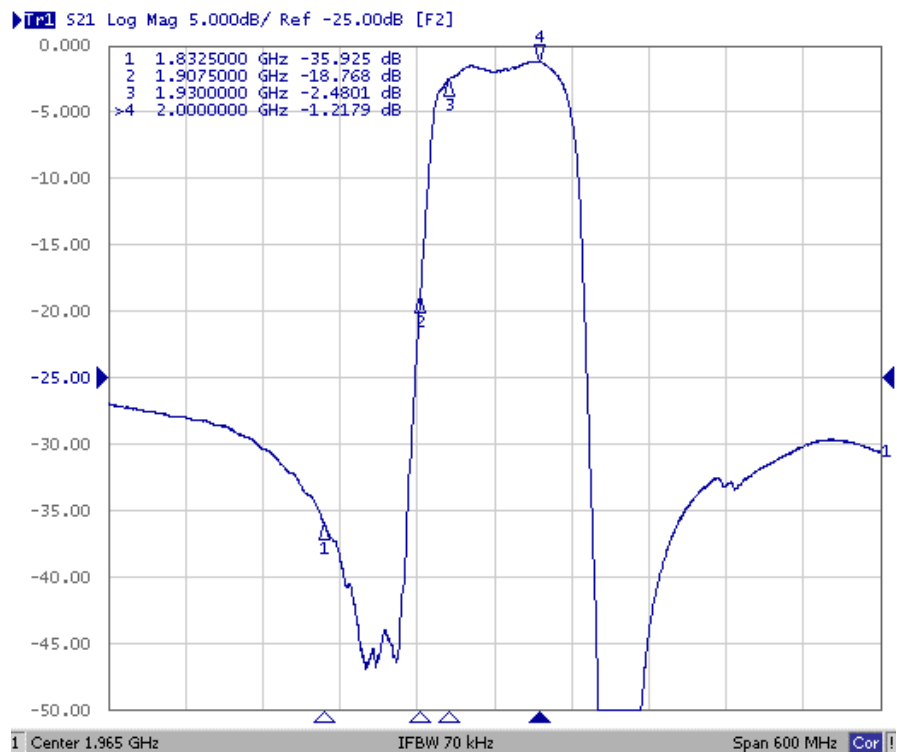
$\square$  : Date Code(Follow the table from planner each year)

## E. PCB Footprint :



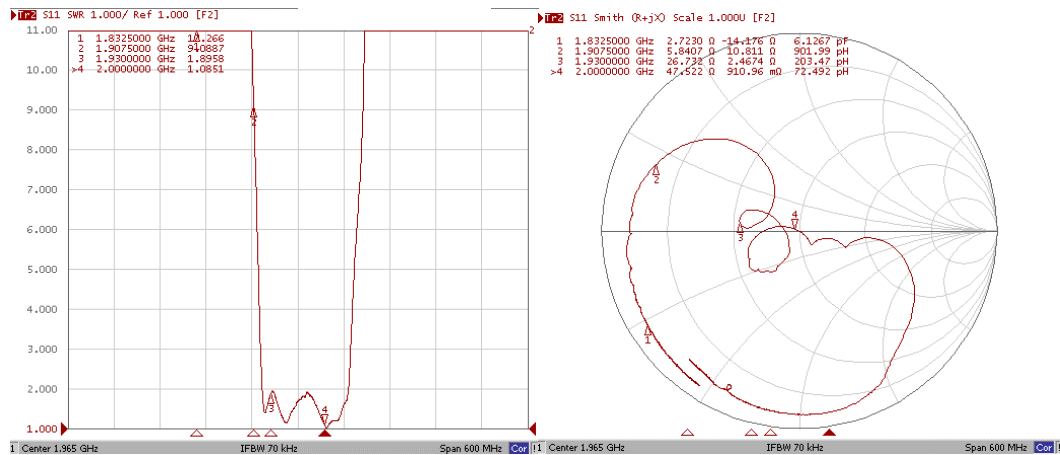
## F. Frequency Characteristics :

### Transfer function

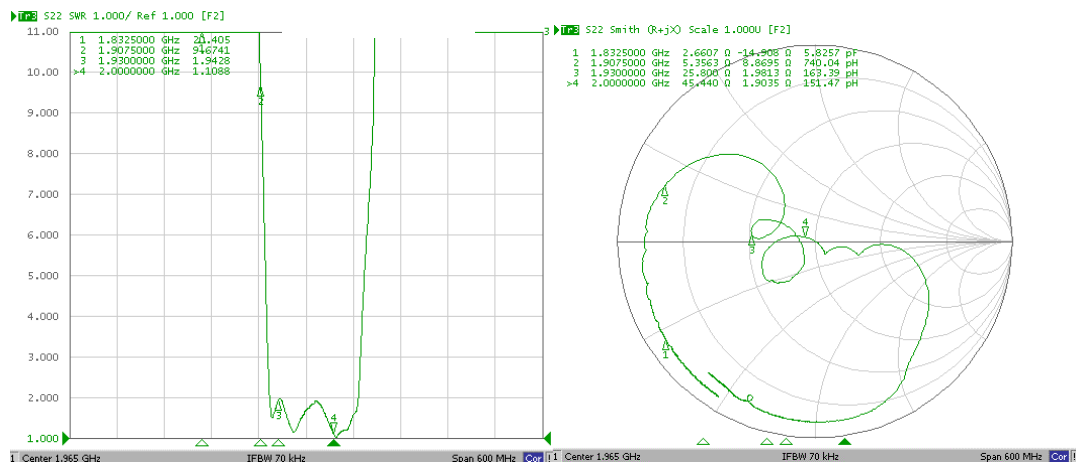


## Reflections Functions :

### S11 VSWR

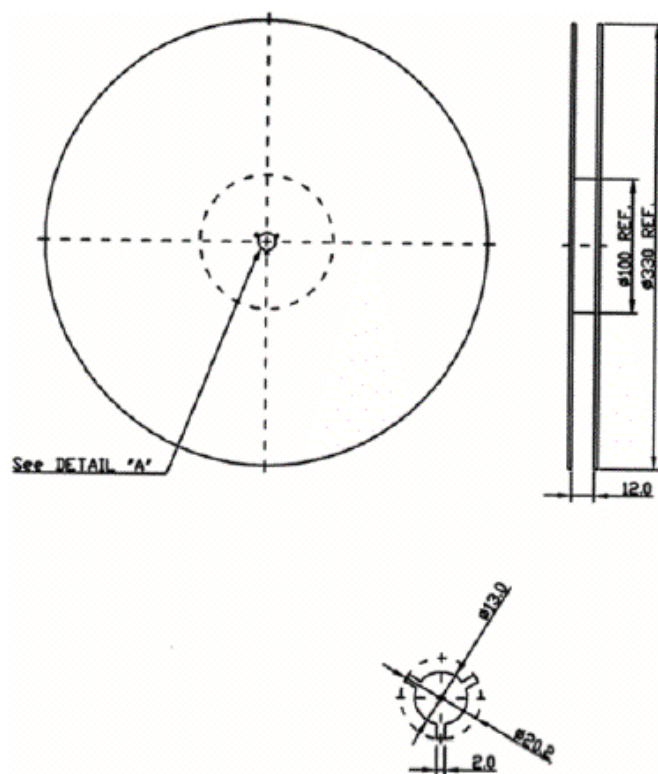


### S22 VSWR

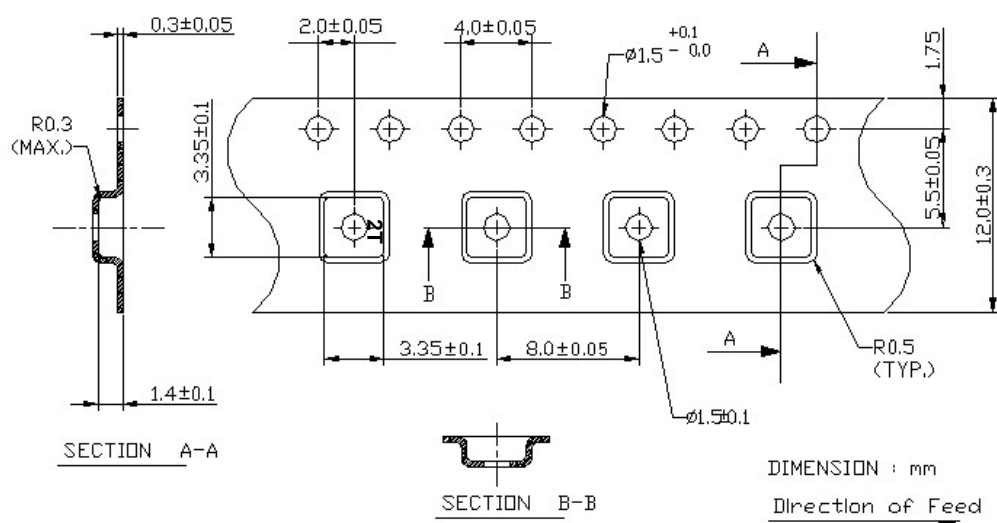


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



## H. RECOMMENDED REFLOW PROFILE:

