



# 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:

Product Name: SAW Filter 942.5MHz

TST Parts No.:TA0179A

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

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

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

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

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

Checked by:\_\_\_\_\_Elvis Chiu

Approval by:\_\_\_\_\_Francis Chen

Date:\_\_\_\_\_2003/1/13



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## SAW Filter 942.5 MHz

MODEL NO.: TA0179A

REV. NO.:2

### A. MAXIMUM RATING:

1. Input Power Level: 15 dB<sub>m</sub>
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

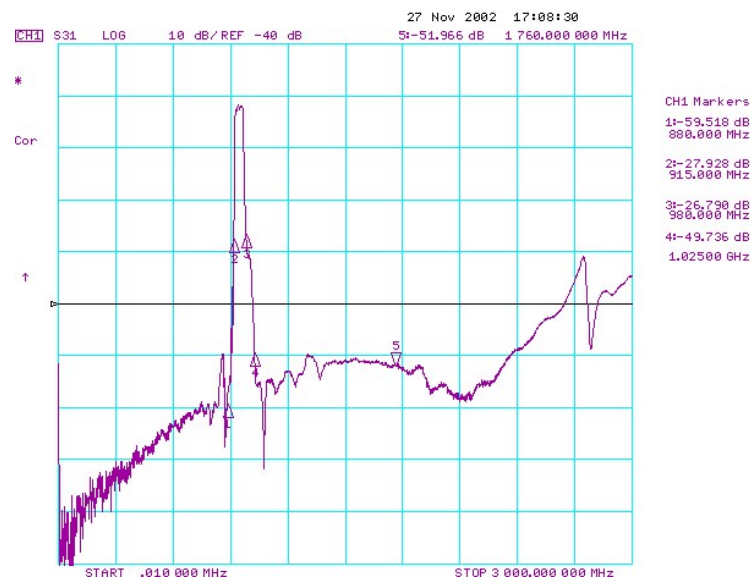
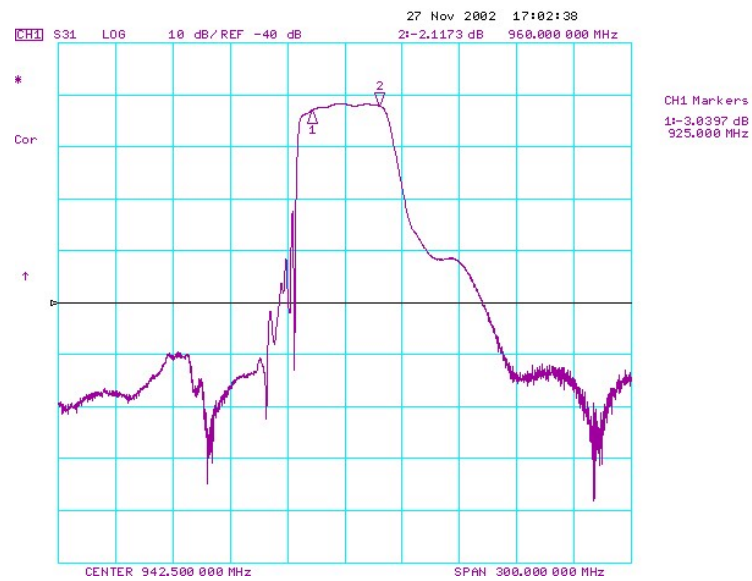
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Characteristics                                   |                      |                                |    | Specification |       |     | Note |
|---------------------------------------------------|----------------------|--------------------------------|----|---------------|-------|-----|------|
|                                                   |                      |                                |    | Min.          | Typ.  | Max |      |
| Center frequency                                  | <b>F<sub>c</sub></b> | MHz                            |    | -             | 942.5 | -   | -    |
| Insertion loss                                    | 925~960 MHz          | <b>I.L.</b>                    | dB | -             | 3.0   | 4.0 | -    |
| Ripple                                            | 925~960 MHz          |                                | dB | -             | 1.3   | 2.3 | -    |
| V.S.W.R                                           | 925~960 MHz          |                                |    | -             | 2.0   | 2.6 | -    |
| <b>Attenuation: ( Reference level from 0 dB )</b> |                      |                                |    |               |       |     |      |
| 0 ~ 750 MHz                                       |                      |                                | dB | 50            | 60    | -   | -    |
| 750 ~ 880 MHz                                     |                      |                                | dB | 43            | 50    | -   | -    |
| 880 ~ 905 MHz                                     |                      |                                | dB | 31            | 42    | -   | -    |
| 980 ~ 1005 MHz                                    |                      |                                | dB | 21            | 28    | -   | -    |
| 1005 ~ 1025 MHz                                   |                      |                                | dB | 28            | 33    | -   | -    |
| 1025 ~ 1035 MHz                                   |                      |                                | dB | 35            | 49    | -   | -    |
| 1035 ~ 1760 MHz                                   |                      |                                | dB | 40            | 50    | -   | -    |
| 1760 ~ 3000 MHz                                   |                      |                                | dB | 25            | 31    | -   | -    |
| Impedance at <b>F<sub>c</sub></b>                 | Input                | $Z_{IN} = R_{IN} // C_{IN}$    |    | 50Ω // 0 PF   |       |     | 1    |
|                                                   | Output               | $Z_{OUT} = R_{OUT} // C_{OUT}$ |    | 50Ω // 0 PF   |       |     | 1    |

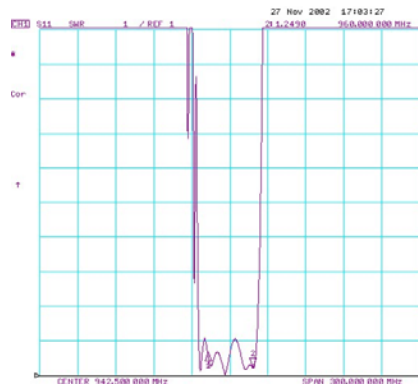
Note1. No matching network required for operation at 50 Ω

## C. Transfer Function :

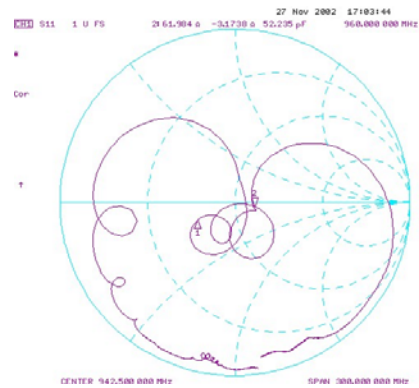


## D. Reflections Functions :

S11

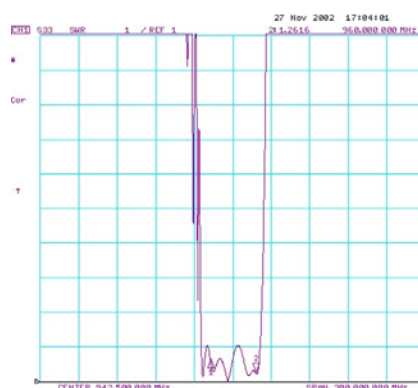


OH1 Markers  
S1 5.404  
925.000 MHz

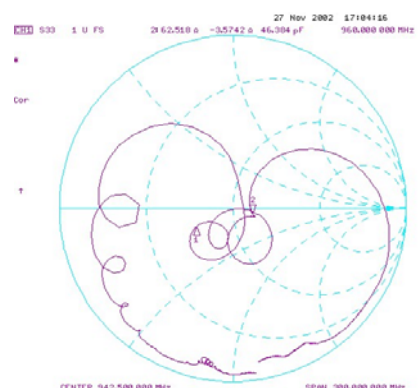


OH1 Markers  
S1 31.499  
-7.101  
925.000 MHz

S22

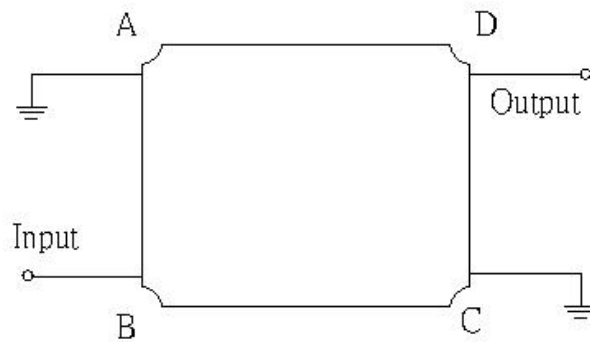


OH1 Markers  
S1 5.434  
925.000 MHz

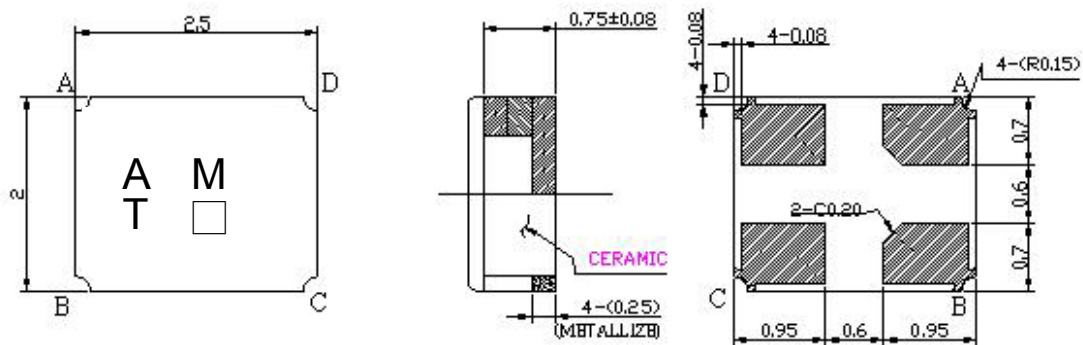


OH1 Markers  
S1 31.698  
-7.301  
925.000 MHz

### E. MEASUREMENT CIRCUIT:



### F.OUTLINE DRAWING:



B : Input

D : Output

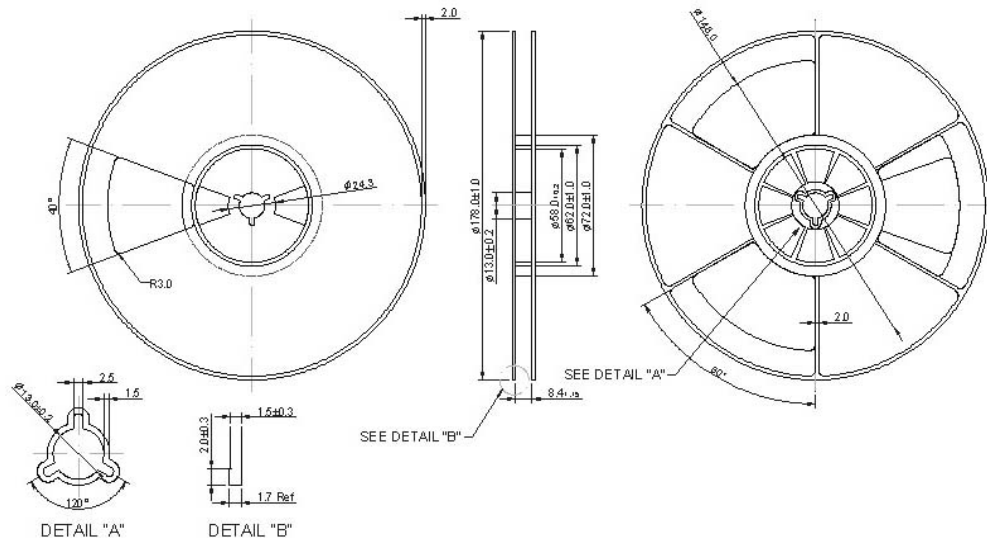
A, C : Ground

□ : Date Code

Unit : mm

## **G. PACKING:**

### **1. REEL DIMENSION**



### **2. TAPE DIMENSION**

