



# 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 460MHz SMD 5.0x5.0mm

TST Parts No.:TA0312A

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

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

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

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

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

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

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

Date:\_\_\_\_\_2003/11/24



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## SAW Filter 460 MHz

MODEL NO.: TA0312A

REV. NO.:1

### A. MAXIMUM RATING:

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

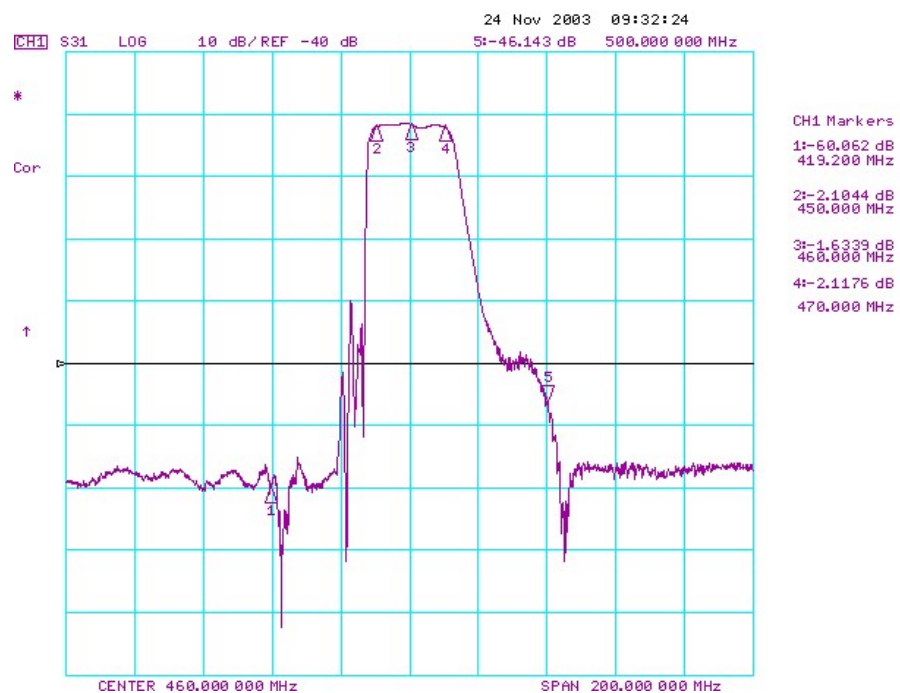
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

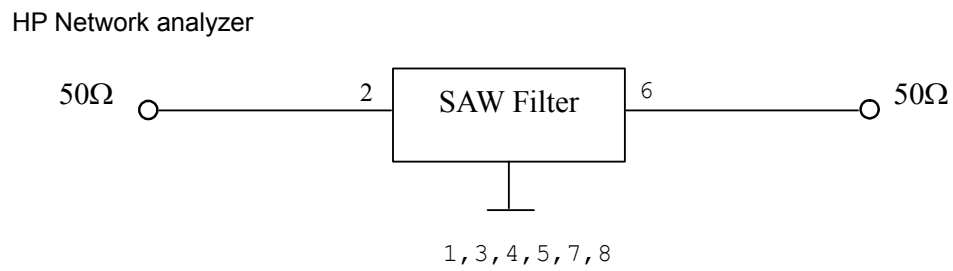
| Item                                               | Unit | Min. | Type. | Max. |
|----------------------------------------------------|------|------|-------|------|
| Center frequency F <sub>c</sub>                    | MHz  | -    | 460   | -    |
| Insertion Loss IL <sub>min</sub> (reference level) | dB   | -    | 1.5   | 3.0  |
| 1dB Bandwidth BW <sub>-1dB</sub>                   | MHz  | -    | 21.6  | -    |
| 3dB Bandwidth BW <sub>-3dB</sub>                   | MHz  | 20   | 24.5  | -    |
| Absolute Attenuation:(Reference level from 0dB)    |      |      |       |      |
| F <sub>c</sub> -40.8 to F <sub>c</sub> -100 MHz    | dB   | 42   | 57    | -    |
| F <sub>c</sub> +40 to F <sub>c</sub> +100 MHz      | dB   | 40   | 46    | -    |
| Source impedance Z <sub>s</sub>                    | Ω    | -    | 50    | -    |
| Load impedance Z <sub>L</sub>                      | Ω    | -    | 50    | -    |

Note: IL<sub>min</sub> is the minimum of the pass band attenuation. The center frequency F<sub>c</sub> is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL<sub>min</sub>.

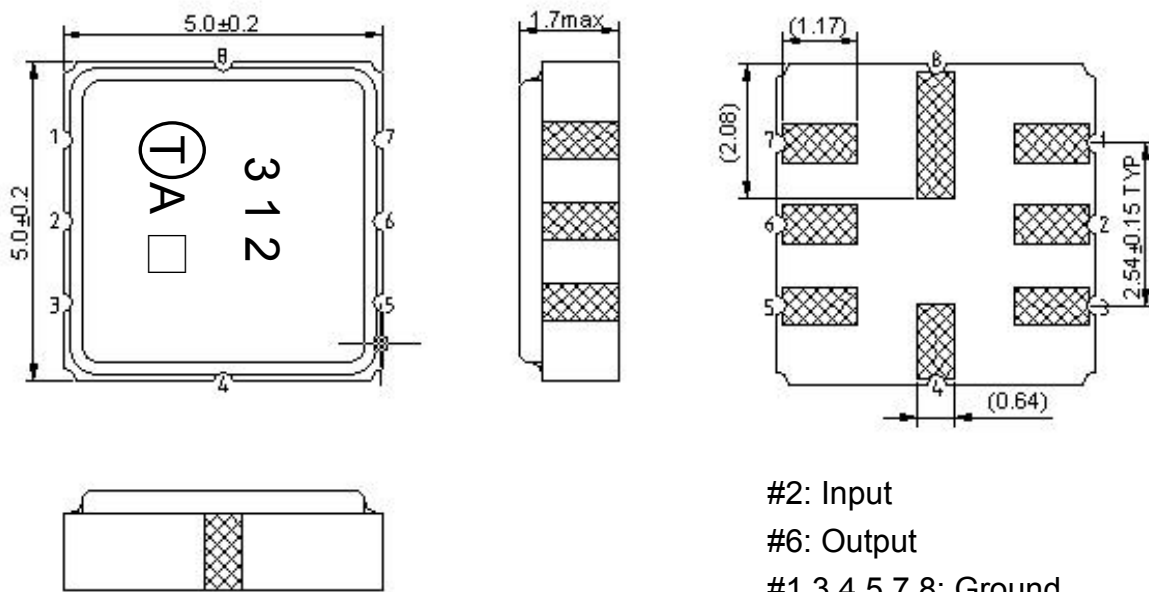
## C. Frequency Characteristics :



## D. MEASUREMENT CIRCUIT:



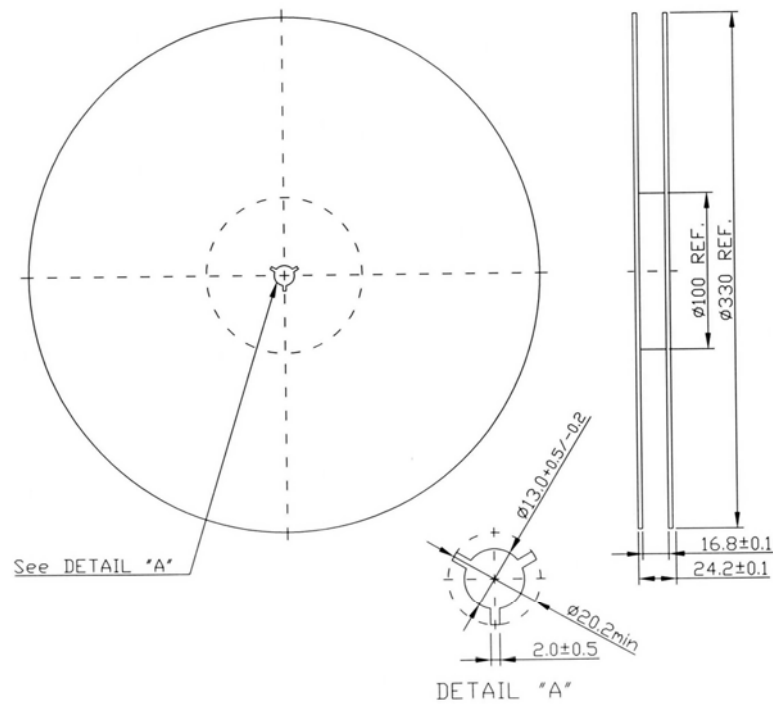
## E. OUTLINE DRAWING:



#2: Input  
 #6: Output  
 #1,3,4,5,7,8: Ground  
 □ : Date Code  
 Unit: mm

**F. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**

