



## 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: [ttsales@mail.taisaw.com](mailto:ttsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

### Approval Sheet For Product Specification

Issued Date: 11, 18, 2004

Product Name: SAW Filter 533.33 MHz SMD 3.8x3.8 mm

TST Parts No.:TB0264A

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

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

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

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

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

Checked by:\_\_\_\_\_ Asin Lin

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

Date:\_\_\_\_\_ 11, 18, 2004



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## SAW Filter 533.33MHz

MODEL NO.: TB0264A

REV. NO.:2

### A. MAXIMUM RATING:

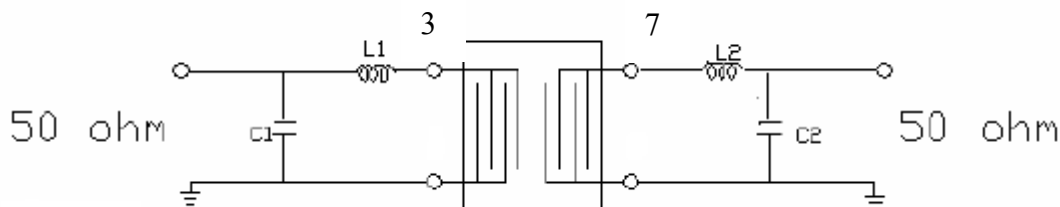
1. Input Power Level : 10 dBm
2. Operating Temperature: -40°C to 85°C
3. Storage Temperature: -40°C to 85°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Item                                        | Unit | Min. | Type.  | Max. | Note |
|---------------------------------------------|------|------|--------|------|------|
| Center frequency, <b>Fc</b>                 | MHz  | -    | 533.33 | -    | -    |
| Insertion Loss, <b>IL</b>                   | dB   | -    | 8.3    | 9    | -    |
| Passband width, <b>BW3</b>                  | MHz  | 4.5  | 8.3    | -    | -    |
| Passband width, <b>BW35</b>                 | MHz  | -    | 17     |      | -    |
| Amplitude Ripple in $F_c \pm 1\text{MHz}$   | dB   | -    | 0.8    | 1    | -    |
| Group delay ripple in $F_c \pm 1\text{MHz}$ | nS   | -    | 65     | 100  | -    |
| Phase Linearity in $F_c \pm 1\text{MHz}$    | deg  |      | 2      | 4    |      |
| Attenuation:(Reference level from Min IL)   |      |      |        |      |      |
| 10 MHz to 504 MHz                           | dB   | 40   | 50     | -    | -    |
| 504 MHz to 521.34 MHz                       | dB   | 30   | 45     | -    | -    |
| 545.34 MHz to 560 MHz                       | dB   | 30   | 45     | -    | -    |
| 560 MHz to 1000 MHz                         | dB   | 40   | 50     | -    | -    |

### C. MEASUREMENT CIRCUIT:



Input L1=10nH, C1=10pF  
Output L2=10nH, C2=8pF

## D. Frequency Characteristics :

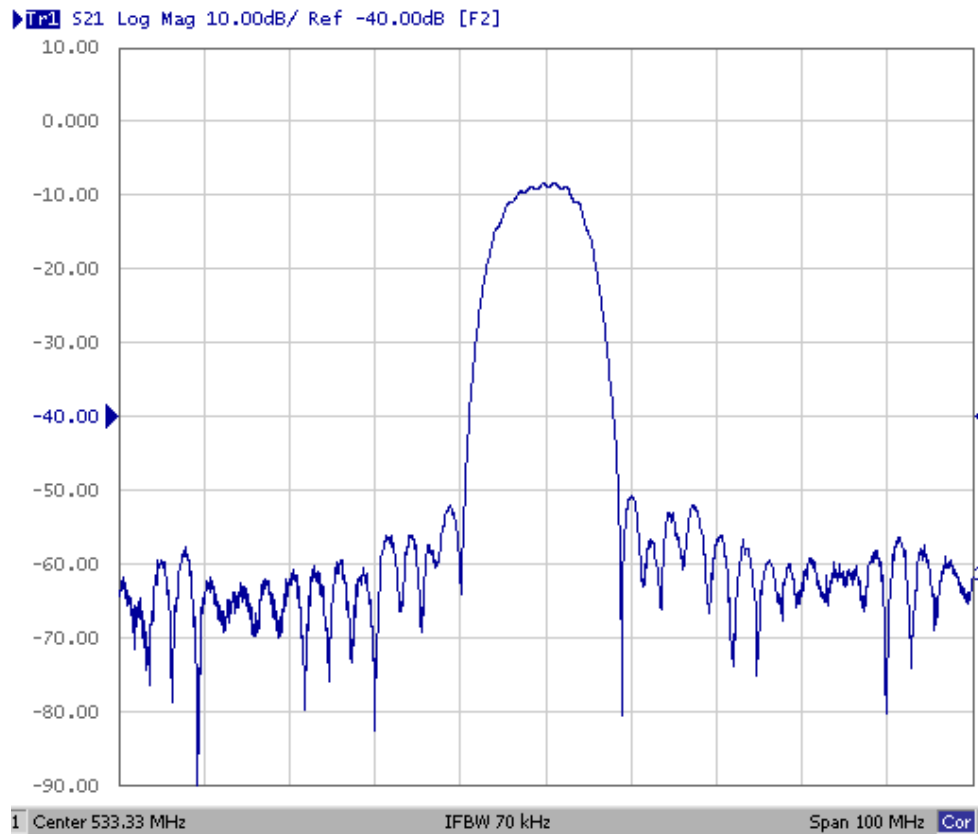


Fig-1 S21 Response Horizontal: 10MHz/Div  
Vertical: 10dB/Div

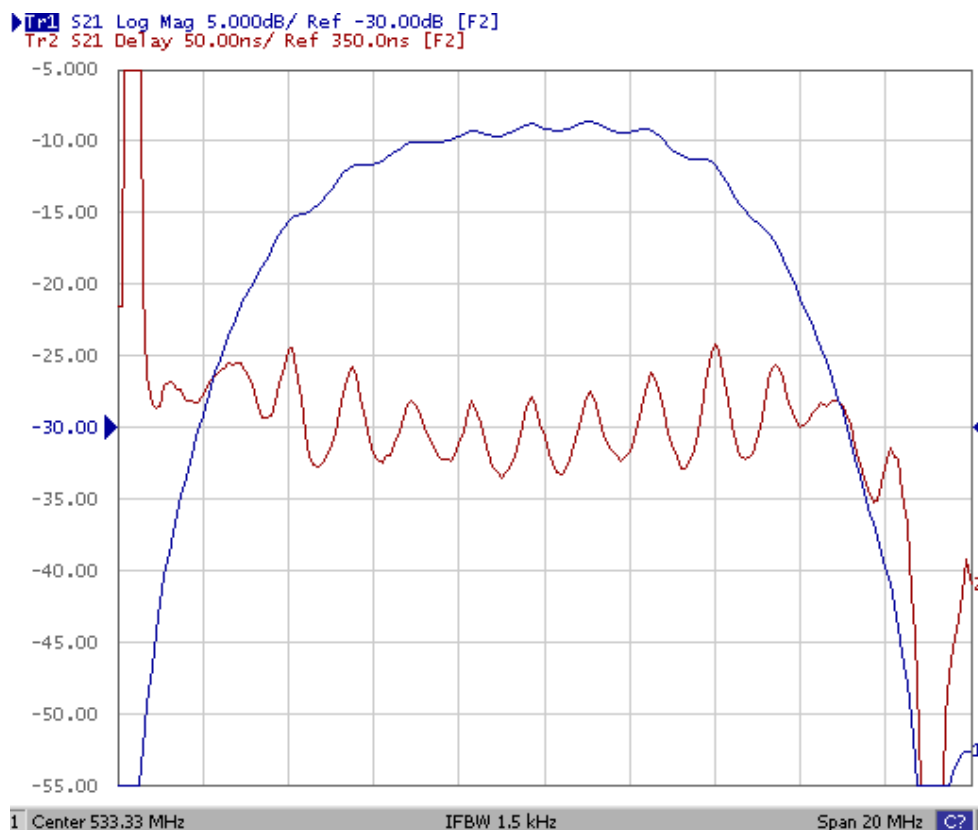
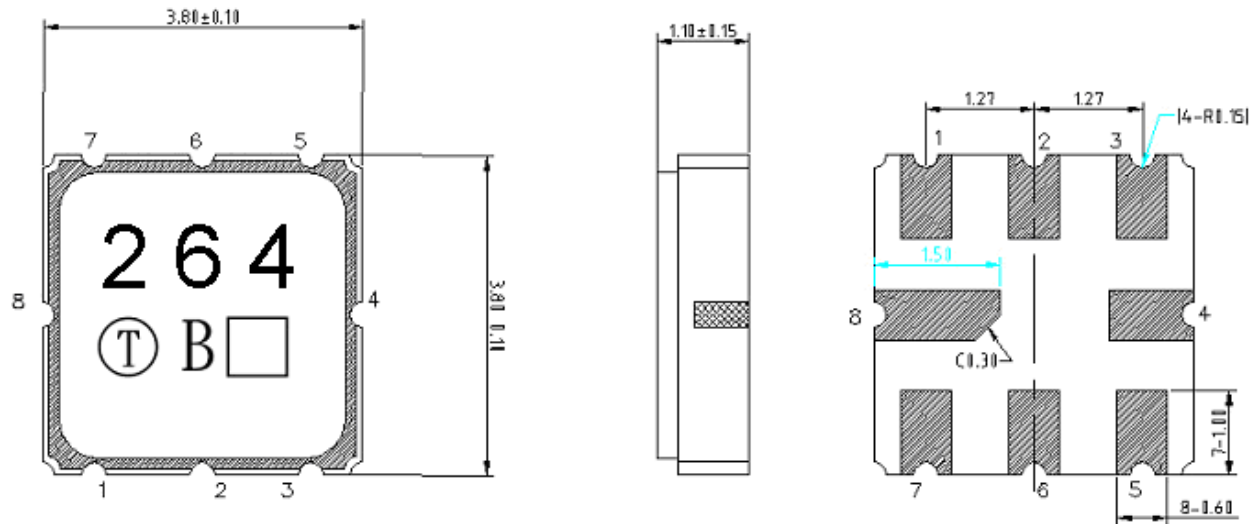


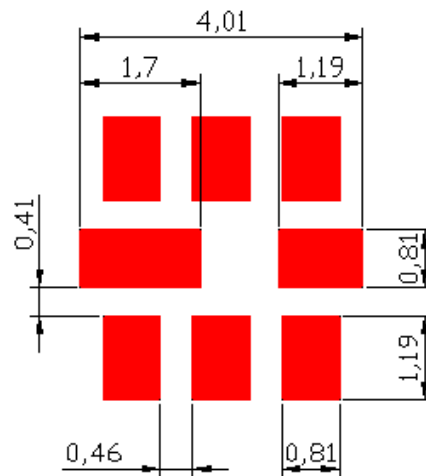
Fig-2 Horizontal: 2M Hz/Div Vertical: 5dB/Div  
Vertical: 50ns/Div

## E. Outline Drawing :



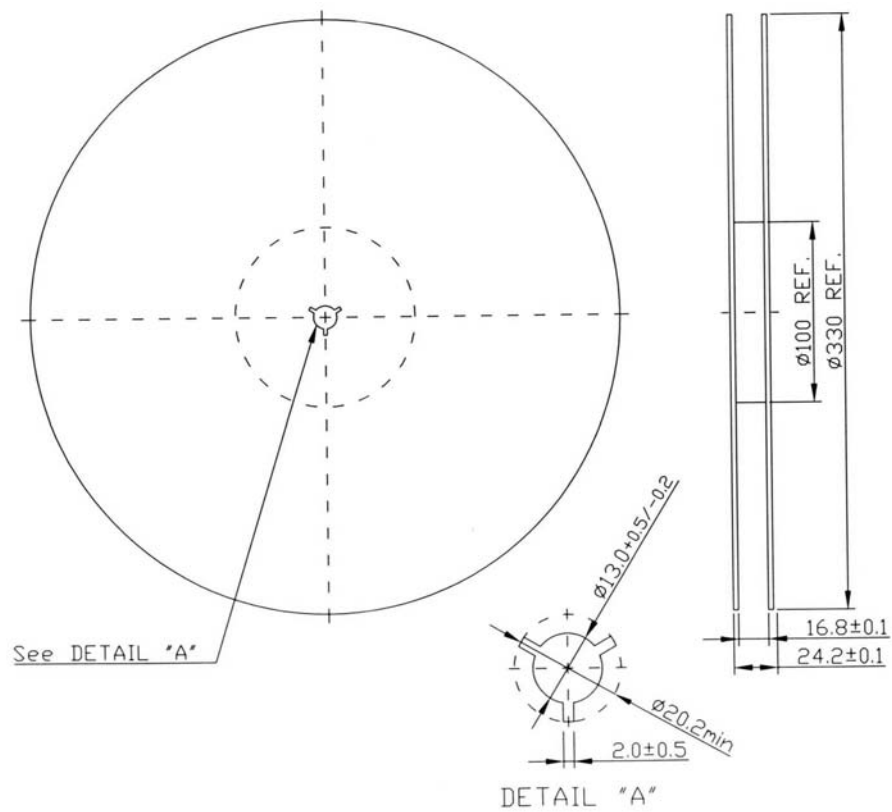
- Pin 3 : RF input or Balance input  
 Pin 7 : RF output or Balance output  
 Pin 2 : RF input ground or Balance input return  
 Pin 6 : RF output ground or Balance output return  
 Pin 1, 4, 5, 8 : To be Ground  
 □ : Date code  
 Unit : mm

## F. PCB Footprint



## G. Packing:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION

