



## 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: Mar, 2, 2007

Product Name: SAW Filter 165.45 MHz SMD 5.0X7.0 mm

TST Parts No.: TB0483A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 3, 2, 2007



# 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)

## SAW Filter 165.45MHz

MODEL NO.:TB0483A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

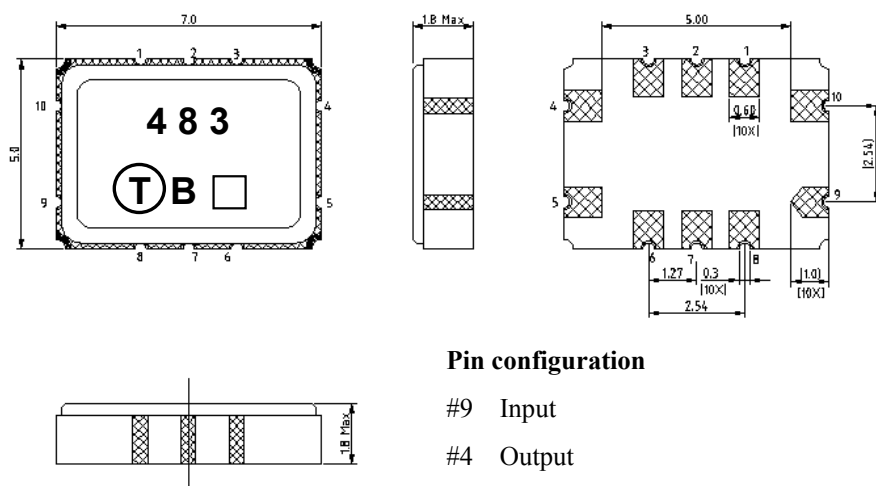
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Item                                            | Unit                      | Min. | Type.  | Max. | Note |
|-------------------------------------------------|---------------------------|------|--------|------|------|
| Center frequency <b>Fc</b>                      | MHz                       | -    | 165.45 | -    | -    |
| Insertion loss at center frequency <b>ILc</b>   | dB                        | -    | 3.0    | 7.0  | -    |
| Ripple (165.44625~165.45375)                    | dB                        | -    | ±0.2   | ±1   | -    |
| <b>Attenuation</b> (relative to <b>ILc</b> )    |                           |      |        |      |      |
| 164.45 ~ 164.5525 MHz                           | dB                        | 30   | 50     | -    | -    |
| 164.5525 ~ 165.35 MHz                           | dB                        | 7    | 21     | -    | -    |
| 165.55 ~ 166.3475 MHz                           | dB                        | 7    | 21     | -    | -    |
| 166.3475 ~ 166.45 MHz                           | dB                        | 30   | 50     | -    | -    |
| <b>Temperature coefficient of frequency TCf</b> | -0.034 ppm/C <sup>2</sup> |      |        |      |      |

Note1. Considering -20 KHz frequency shift from -40°C to +85°C

## C.OUTLINE DRAWING:



### Pin configuration

#9 Input

#4 Output

#10 Balance input or input ground

#5 Balance output or output ground

#1,2,3,6,7,8 To be grounded

□ Date code

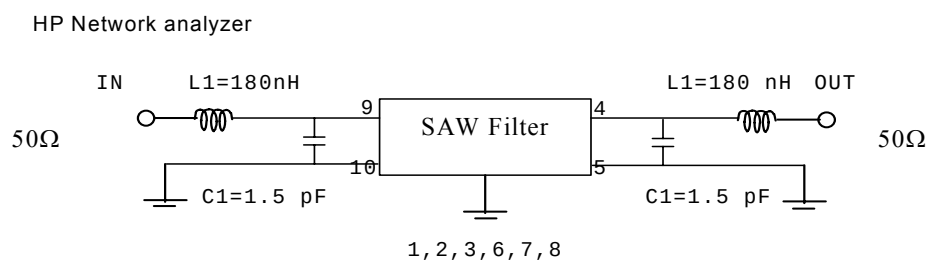
Unit mm

### Product Year Code

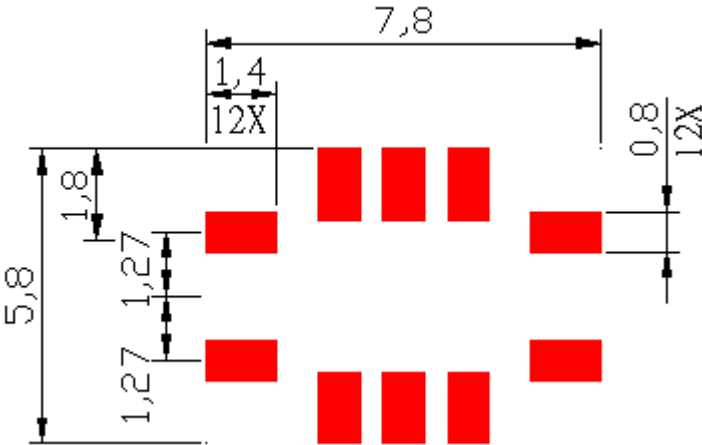
| Year         | 2001<br>2005 | 2002<br>2006 | 2003<br>2007 | 2004<br>2008 |
|--------------|--------------|--------------|--------------|--------------|
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

## D. MEASUREMENT CIRCUIT:

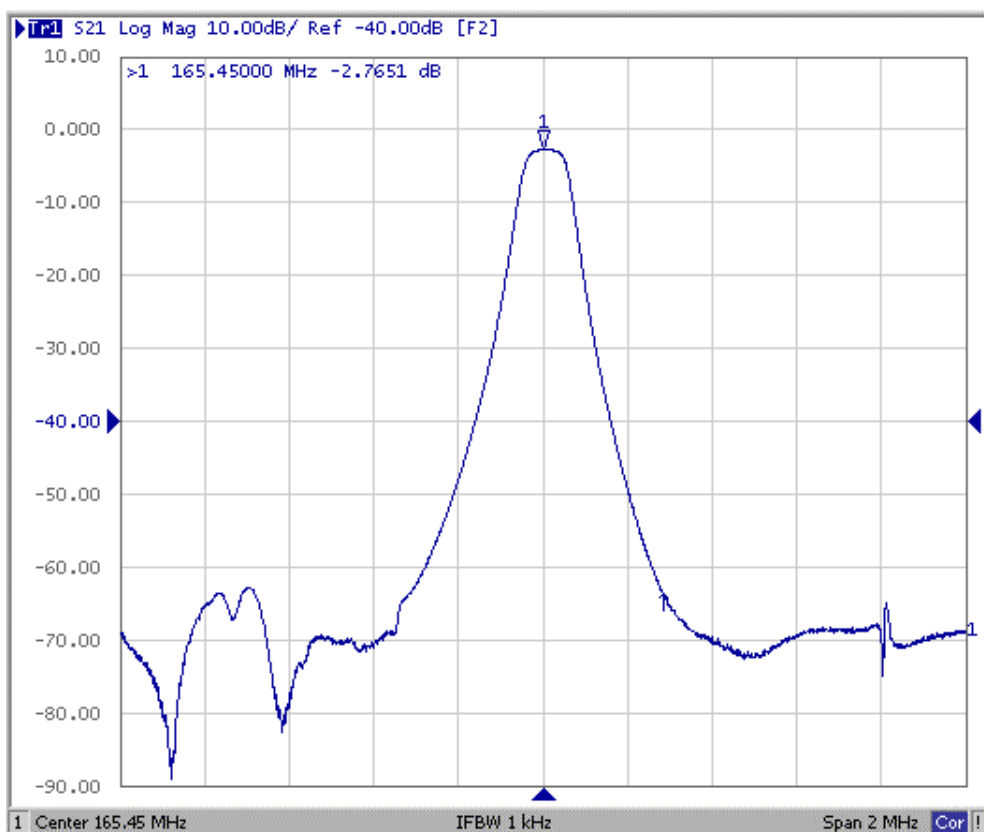
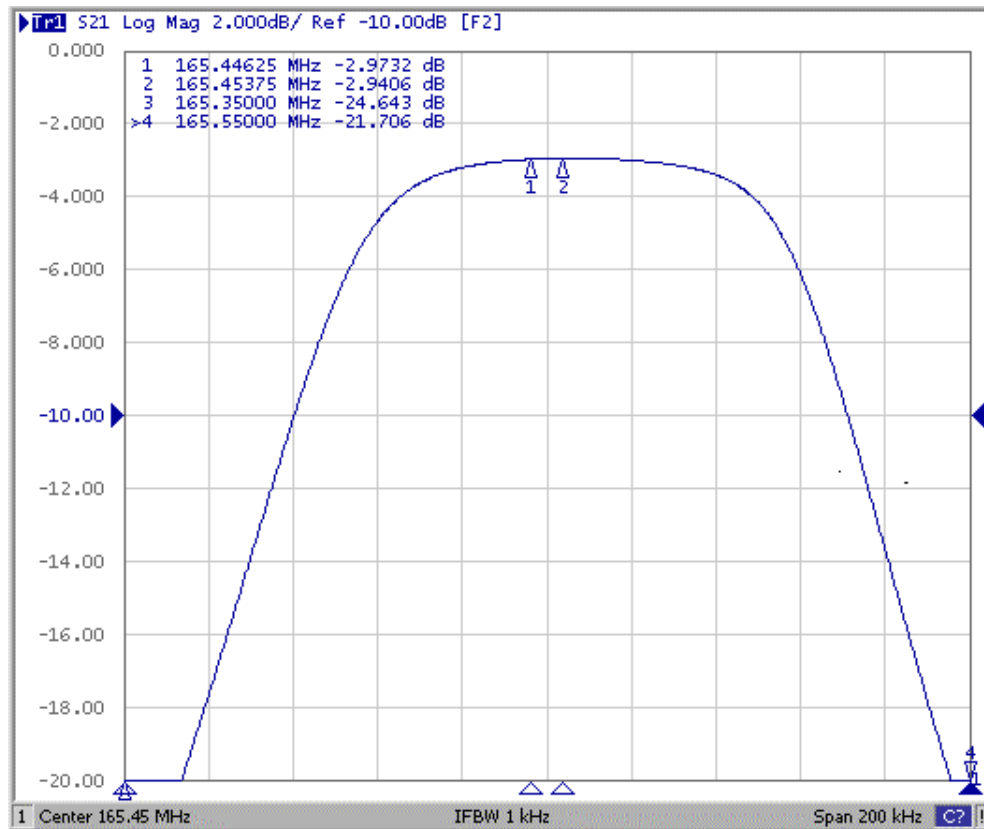
50 Ohm Test circuit ( single-ended / single-ended )



E. PCB Footprint:

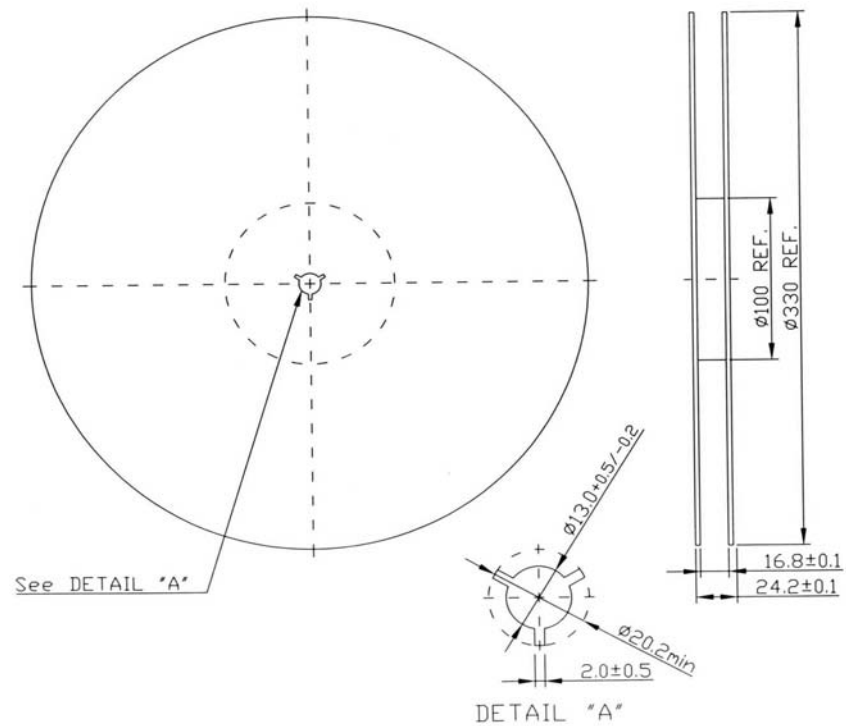


## F. Frequency Characteristics :

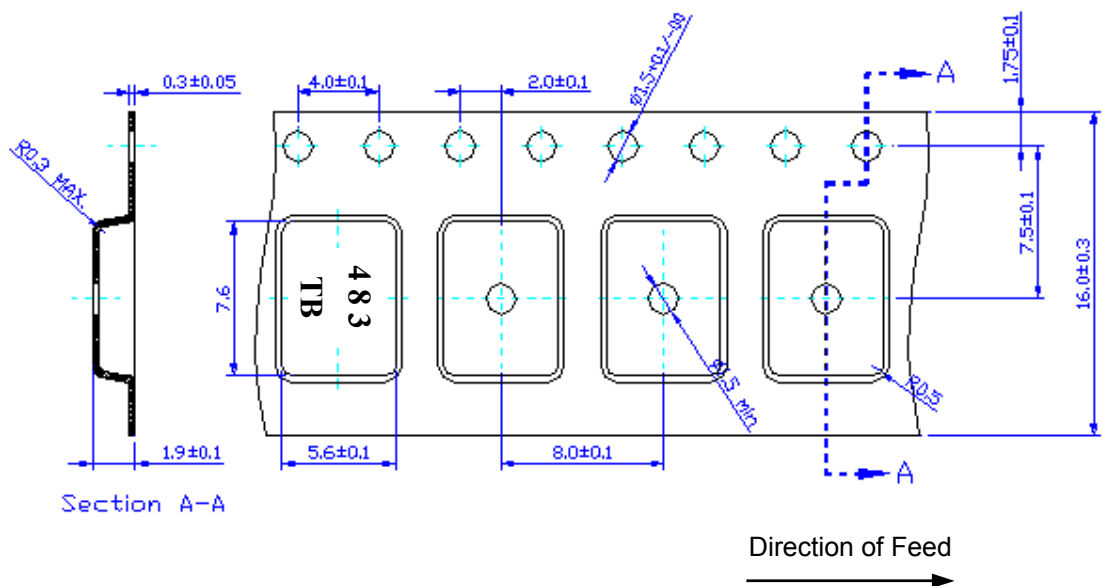


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

