



# 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: Mar, 5, 2007

Product Name: SAW Filter 173.075 MHz SMD 5.0X7.0 mm

TST Parts No.: TB0485A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 3, 5, 2007



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## SAW Filter 173.075MHz

MODEL NO.:TB0485A

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

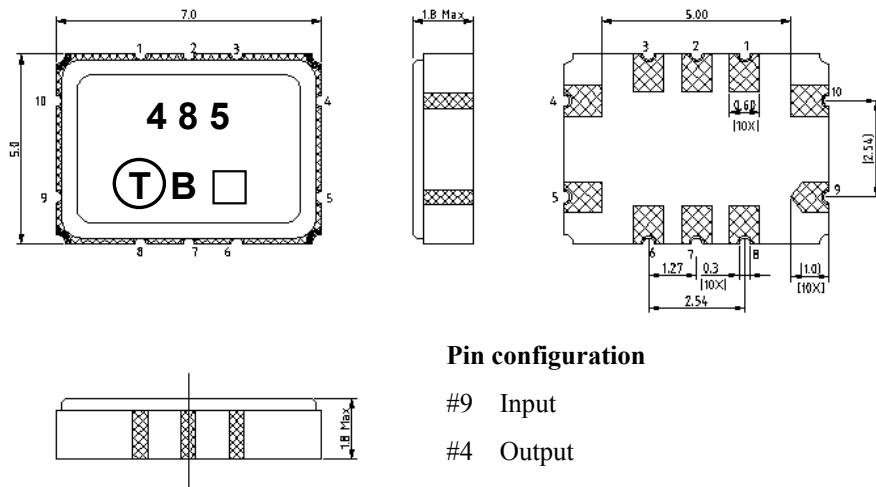
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Item                                            | Unit                      | Min. | Type.   | Max. | Note |
|-------------------------------------------------|---------------------------|------|---------|------|------|
| Center frequency <b>Fc</b>                      | MHz                       | -    | 173.075 | -    | -    |
| Insertion loss at center frequency <b>ILc</b>   | dB                        | -    | 3.7     | 7.0  | -    |
| Ripple (173.0675 ~ 173.0825 MHz)                | dB                        | -    | ±0.3    | ±1   | -    |
| <b>Attenuation</b> (relative to <b>ILc</b> )    |                           |      |         |      |      |
| 172.075 ~ 172.19 MHz                            | dB                        | 30   | 50      | -    | -    |
| 172.19 ~ 172.975 MHz                            | dB                        | 7    | 20      | -    | -    |
| 173.175 ~ 173.96 MHz                            | dB                        | 7    | 20      | -    | -    |
| 173.96 ~ 174.075 MHz                            | dB                        | 30   | 50      | -    | -    |
| <b>Temperature coefficient of frequency TCf</b> | -0.034 ppm/C <sup>2</sup> |      |         |      |      |

Note1. Considering -22 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

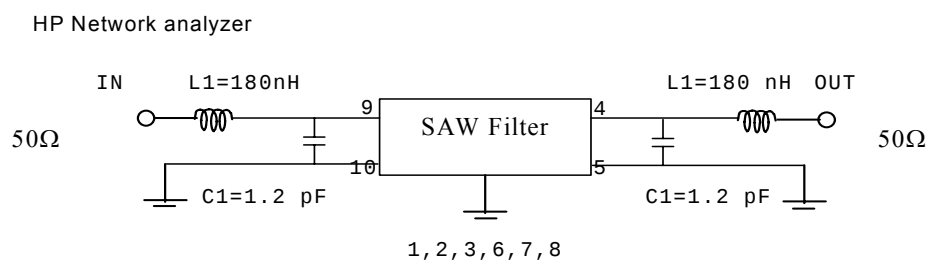
Unit mm

### Product Year Code

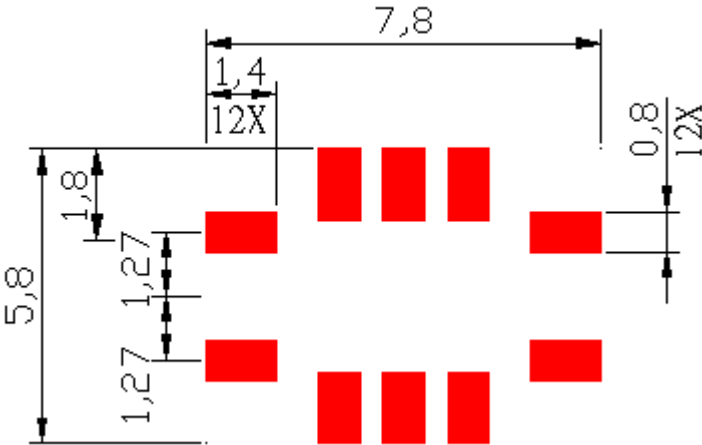
| Year         | 2001<br>2005 | 2002<br>2006 | 2003<br>2007 | 2004<br>2008 |
|--------------|--------------|--------------|--------------|--------------|
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

## D. MEASUREMENT CIRCUIT:

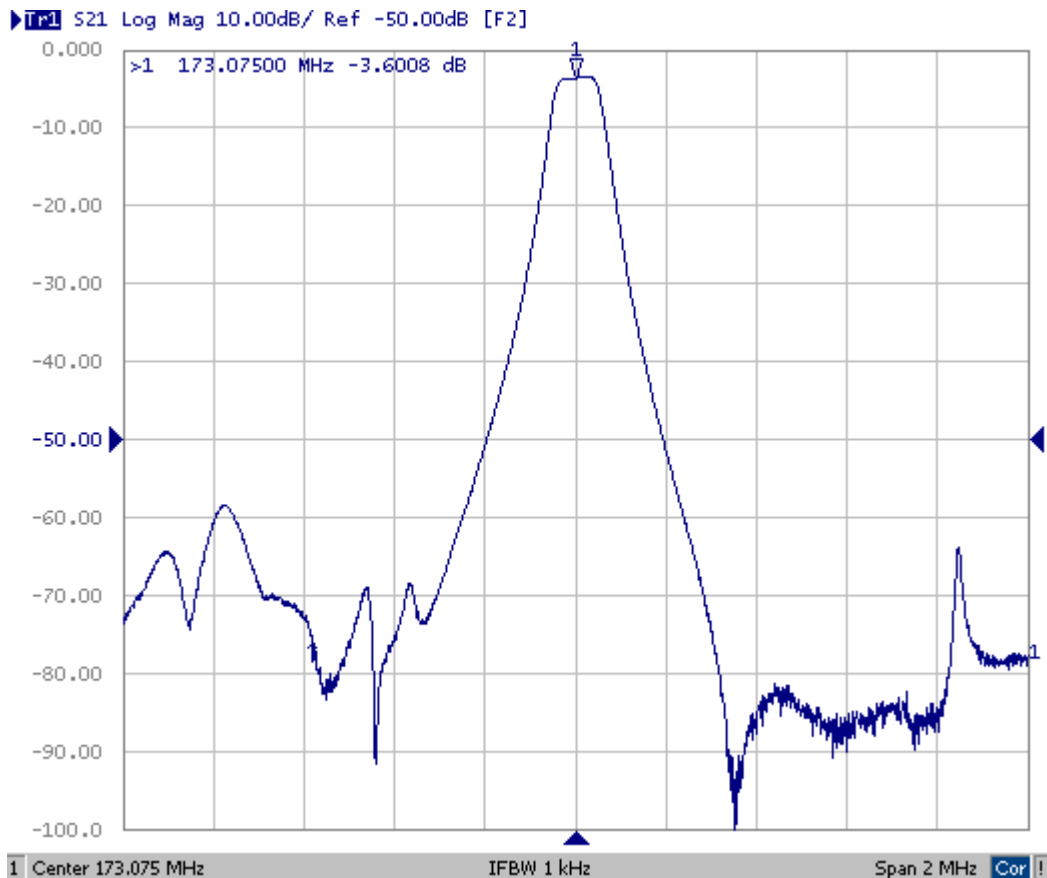
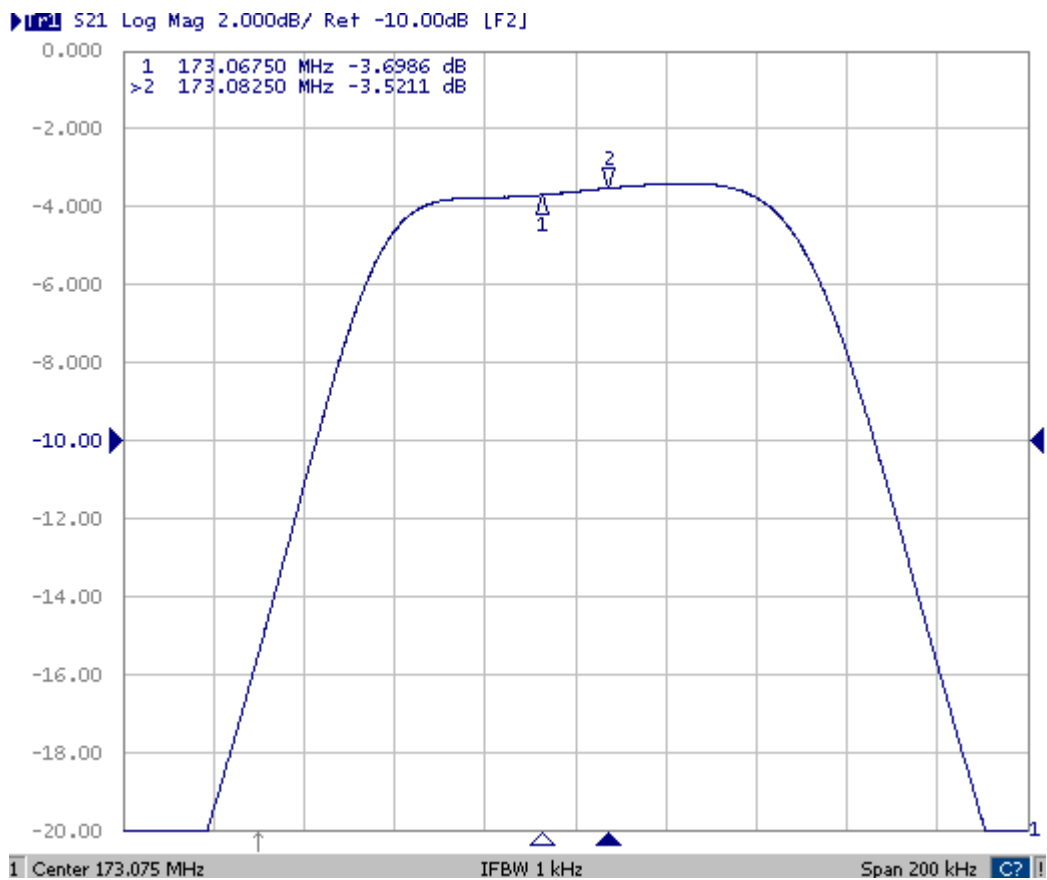
50 Ohm Test circuit ( single-ended / single-ended )



E. PCB Footprint:

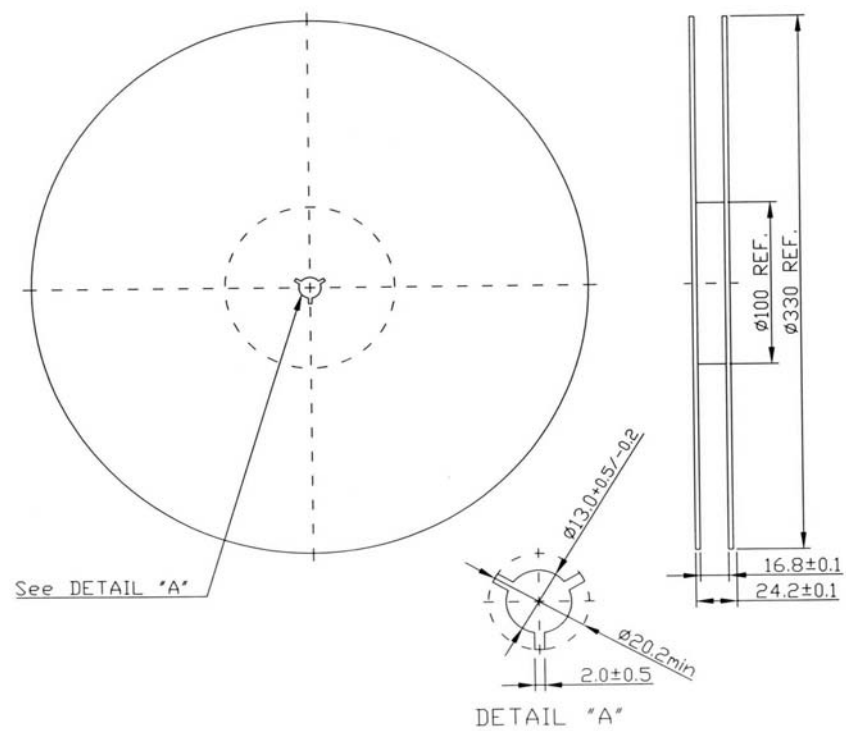


## F. Frequency Characteristics :

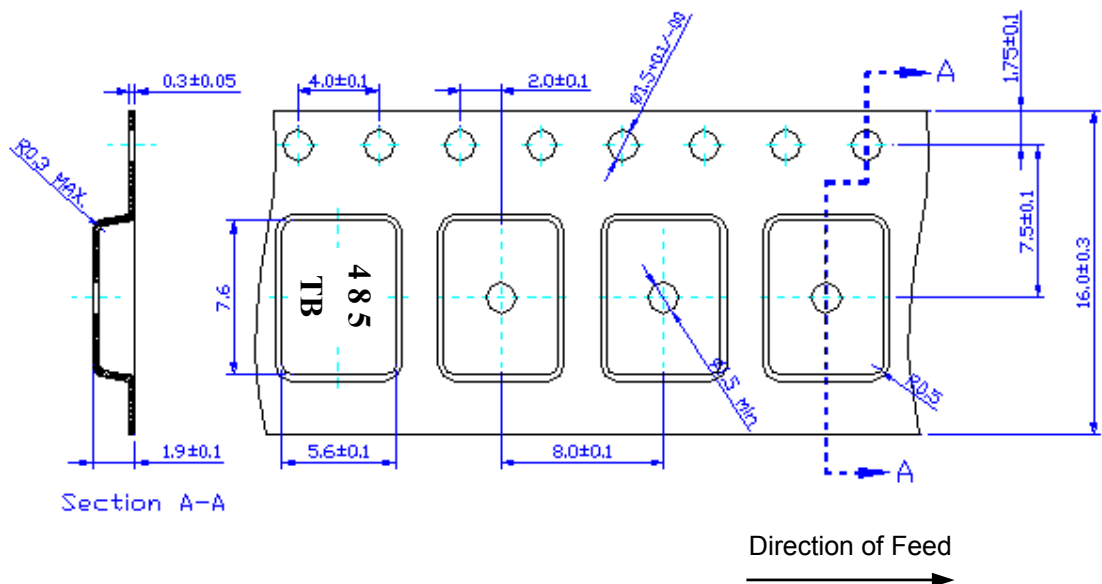


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

