



# 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 428.835MHz SMD 3.8×3.8mm

TST Parts No.: TA0593A

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

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

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

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

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

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

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

Date: \_\_\_\_\_ 2006/09/13



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## SAW Filter 428.835 MHz

MODEL NO.: TA0593A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: +15°C to +35°C
4. Storage Temperature: -40°C to +85°C

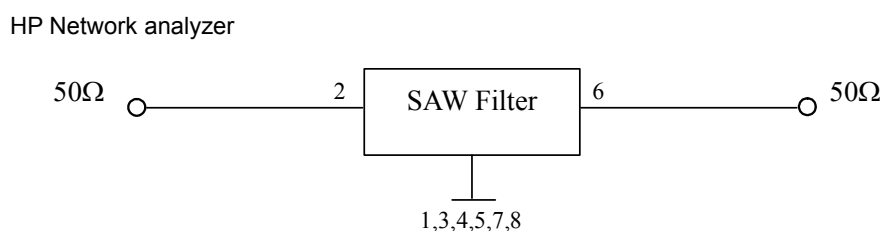
RoHS Compliant  
Lead free  
Lead-free soldering

### B. CHARACTERISTICS:

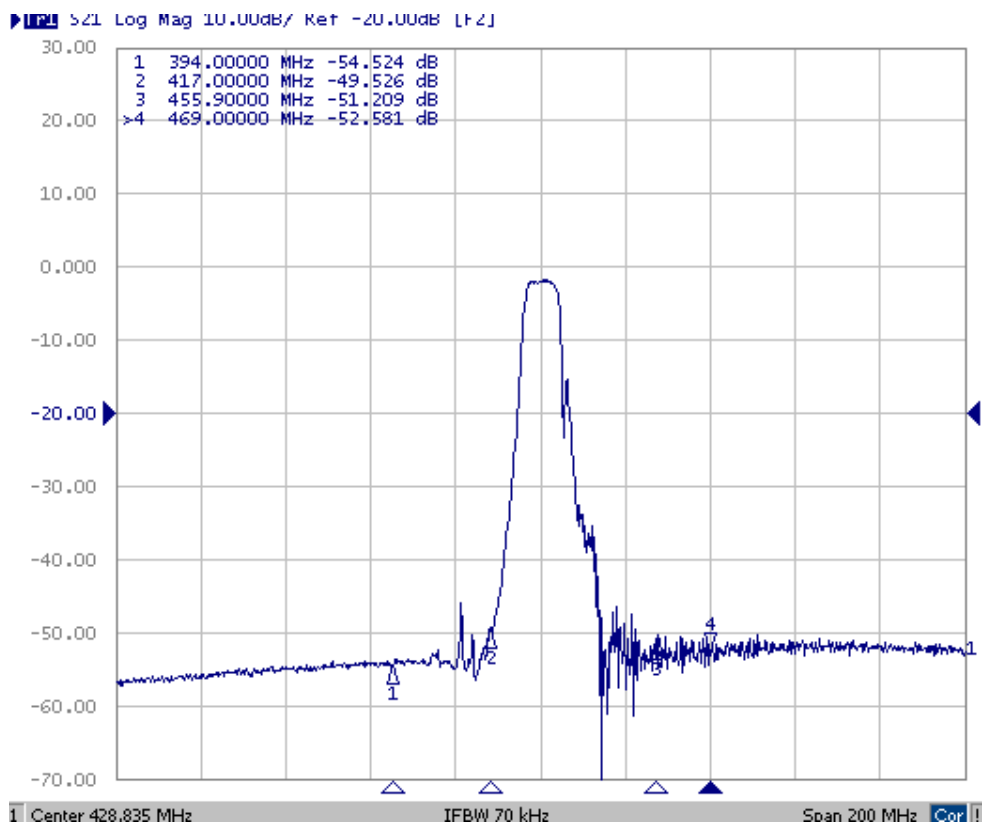
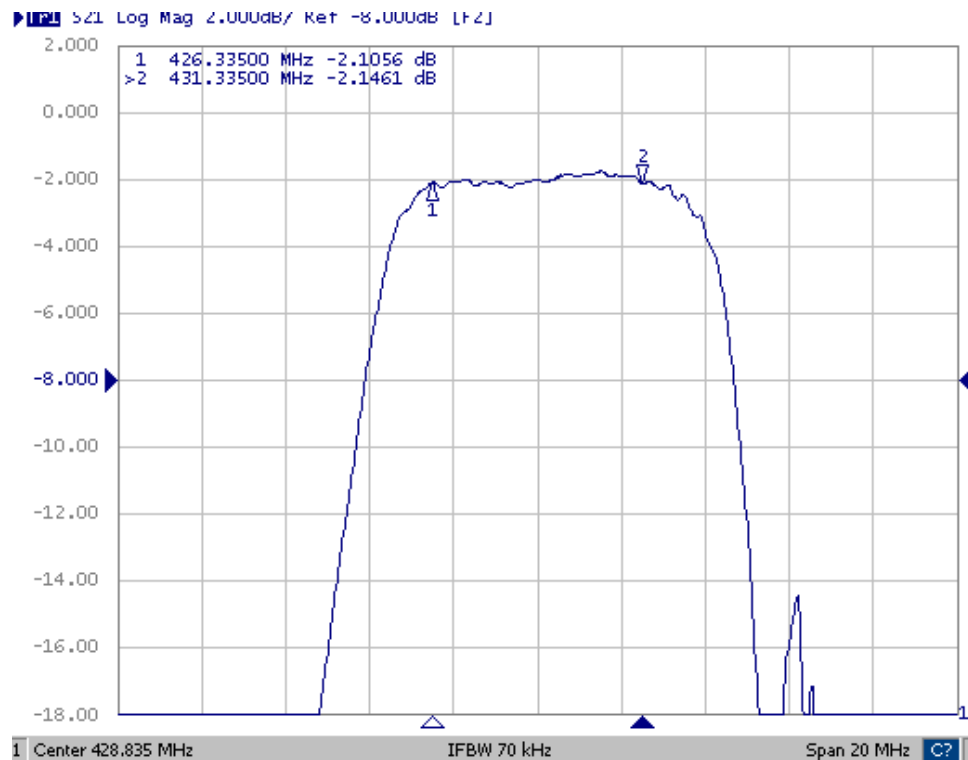
| Item                                    |                          |       | Min. | Typical | Max. |
|-----------------------------------------|--------------------------|-------|------|---------|------|
| Center frequency                        | F <sub>c</sub>           | MH    | -    | 428.835 | -    |
| Insertion loss                          | 426.335 ~ 431.335 MHz IL | dB    | -    | 2.2     | 3.6  |
| Amplitude ripple                        | 426.335 ~ 431.335 MHz    | dB    | -    | 0.7     | 2.1  |
| VSWR                                    | 426.335 ~ 431.335 MHz    | dB    | -    | 1.4     | 2.1  |
| Attenuation (Reference level from 0 dB) |                          |       |      |         |      |
| 1 ~ 379.0                               | MHz                      | dB    | 40   | 50      | -    |
| 379.0 ~ 394.0                           | MHz                      | dB    | 31   | 50      | -    |
| 394.0 ~ 417.0                           | MHz                      | dB    | 10   | 35      | -    |
| 455.9 ~ 469.0                           | MHz                      | dB    | 37   | 50      | -    |
| 469.0 ~ 550.0                           | MHz                      | dB    | 40   | 50      | -    |
| Temperature coefficient of frequency    |                          | ppm/k | -    | -36     | -    |
| Source impedance                        | Z <sub>s</sub>           | Ω     | -    | 50      | -    |
| Load impedance                          | Z <sub>L</sub>           | Ω     | -    | 50      | -    |

Note1. No matching network required for operation at 50Ω

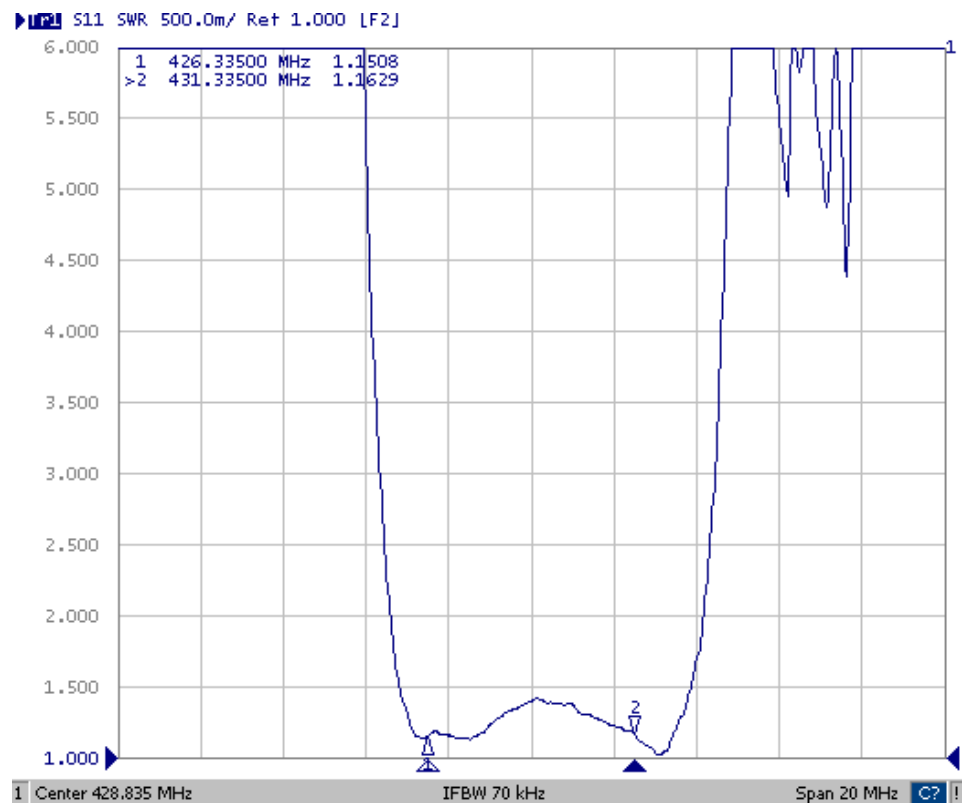
### C. MEASUREMENT CIRCUIT:



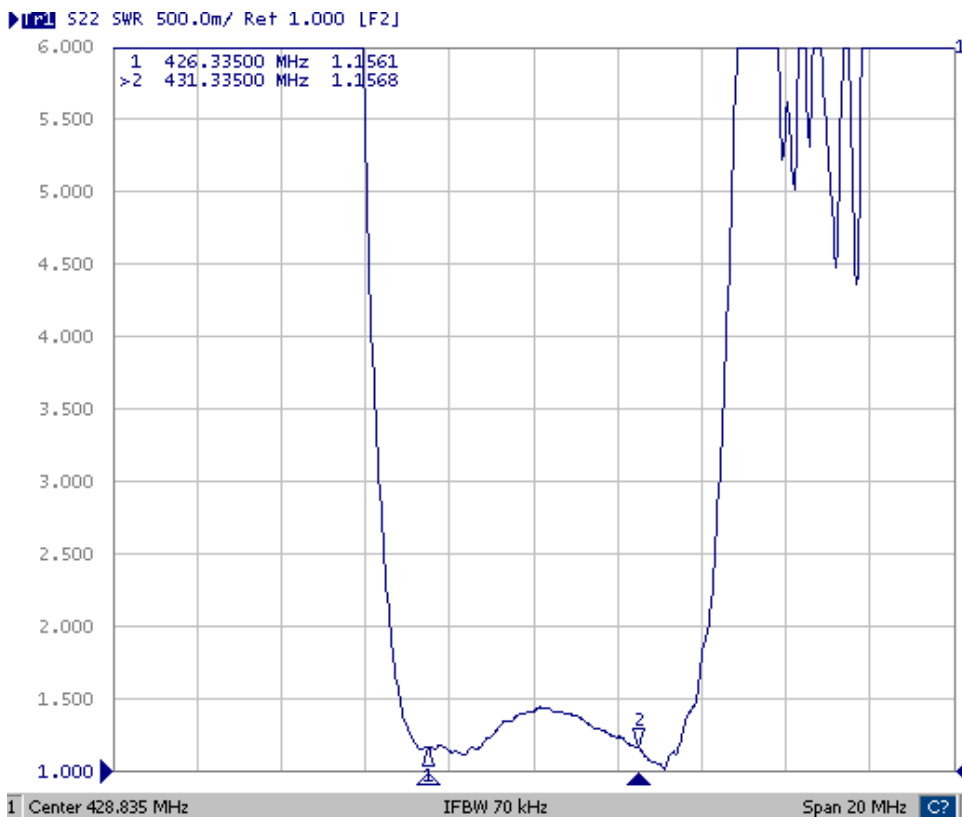
## D. TRANSFER FUNCTION :



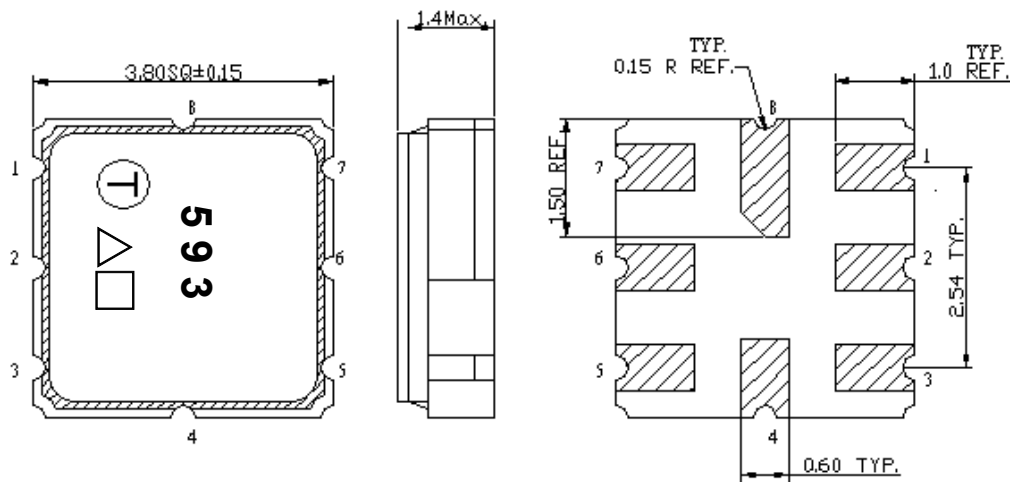
VSWR S11



VSWR S22



## E.OUTLINE DRAWING:



△ Product Year Code

| Year         | 2005<br>2007<br>2009 | 2006<br>2008<br>2010 |
|--------------|----------------------|----------------------|
| Product Code | A                    | a                    |

2 : Input

6: Output

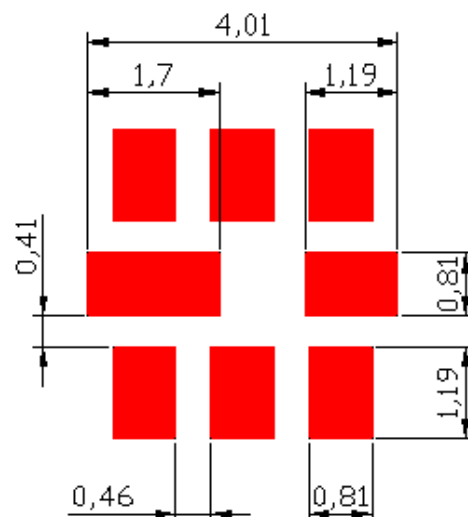
1,3,4,5,7,8 Ground

△:Year Code

□: Date Code(Follow the table provided by planner each year.)

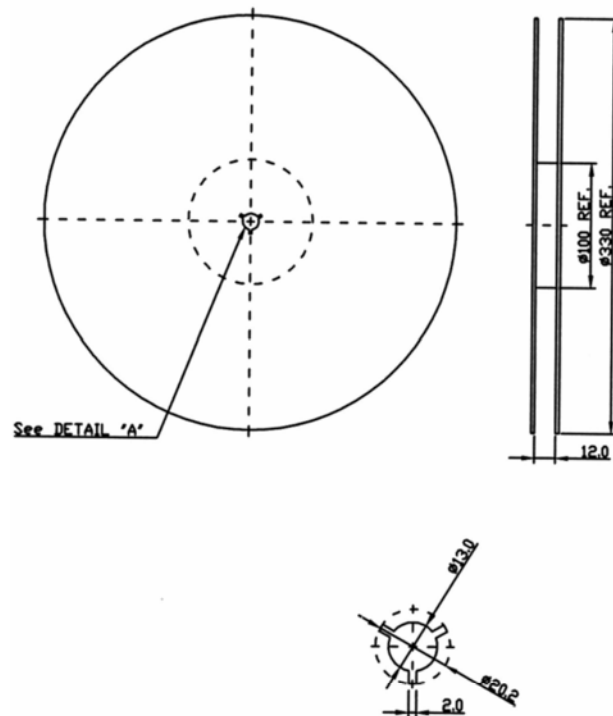
Unit: mm

## F.PCB FOOTPRINT:

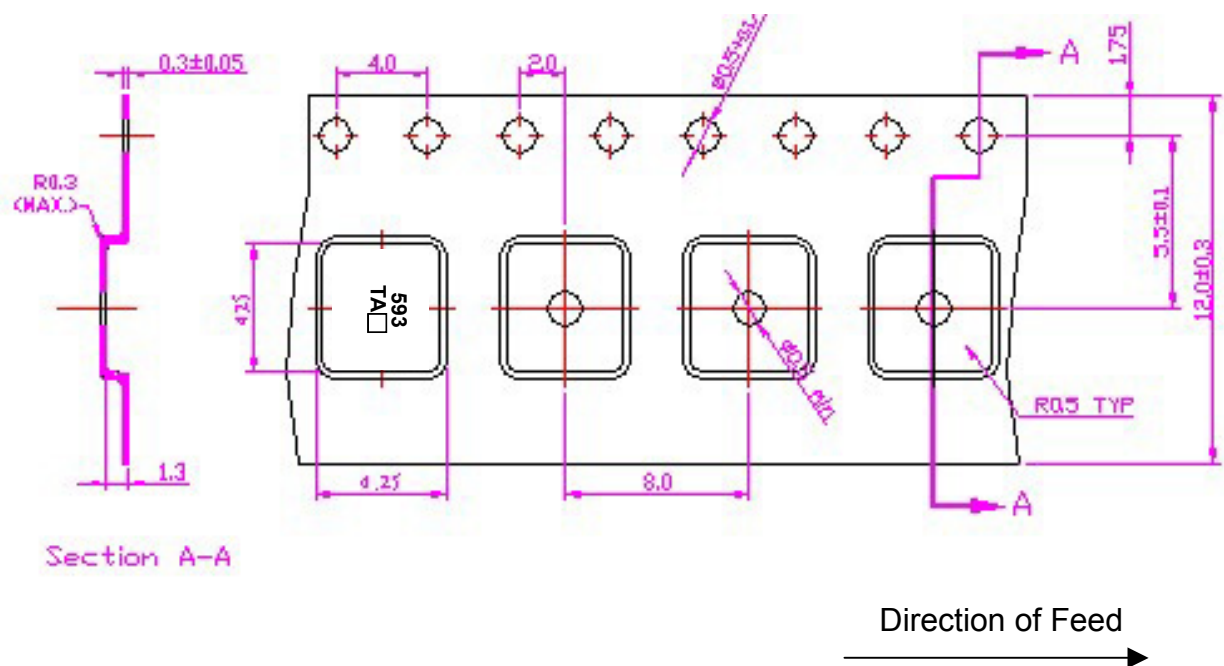


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



H. REFLOW PROFILE

