



# 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 433.42MHz SMD5X5mm

TST Parts No.: TA0293A

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

|                     |
|---------------------|
| Company: _____      |
| Division: _____     |
| Approved by : _____ |
| Date: _____         |

Checked by: \_\_\_\_\_ Jacky Huang

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

Date: \_\_\_\_\_ 2003/9/5



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## SAW Filter 433.42 MHz

MODEL NO.: TA0293A

REV. NO.:2

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

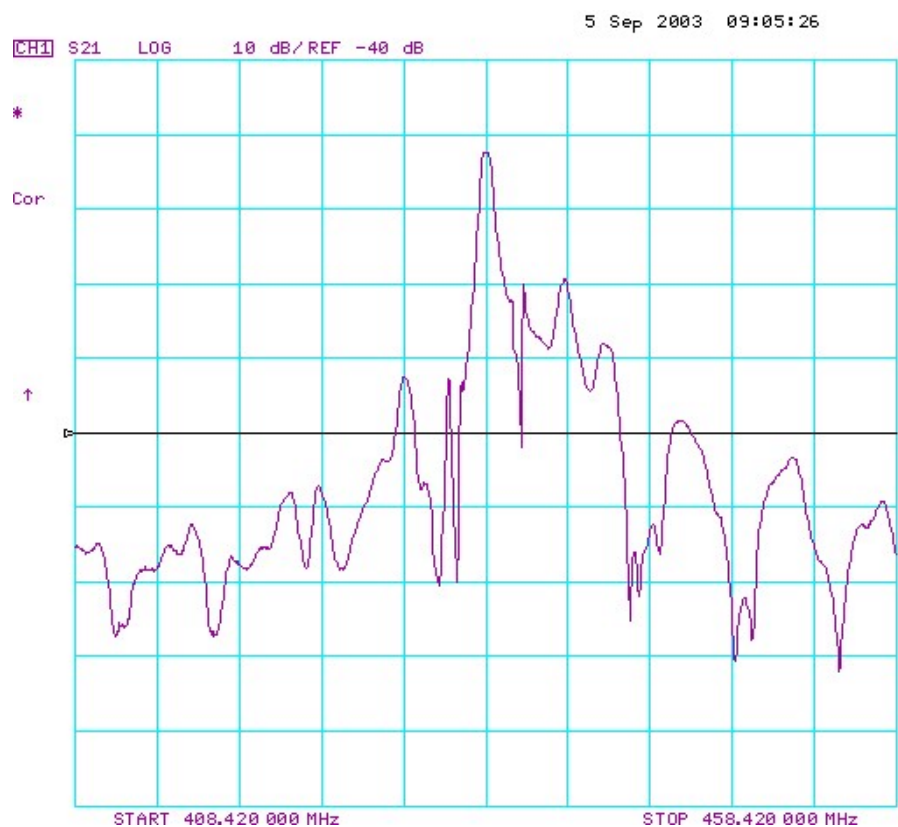
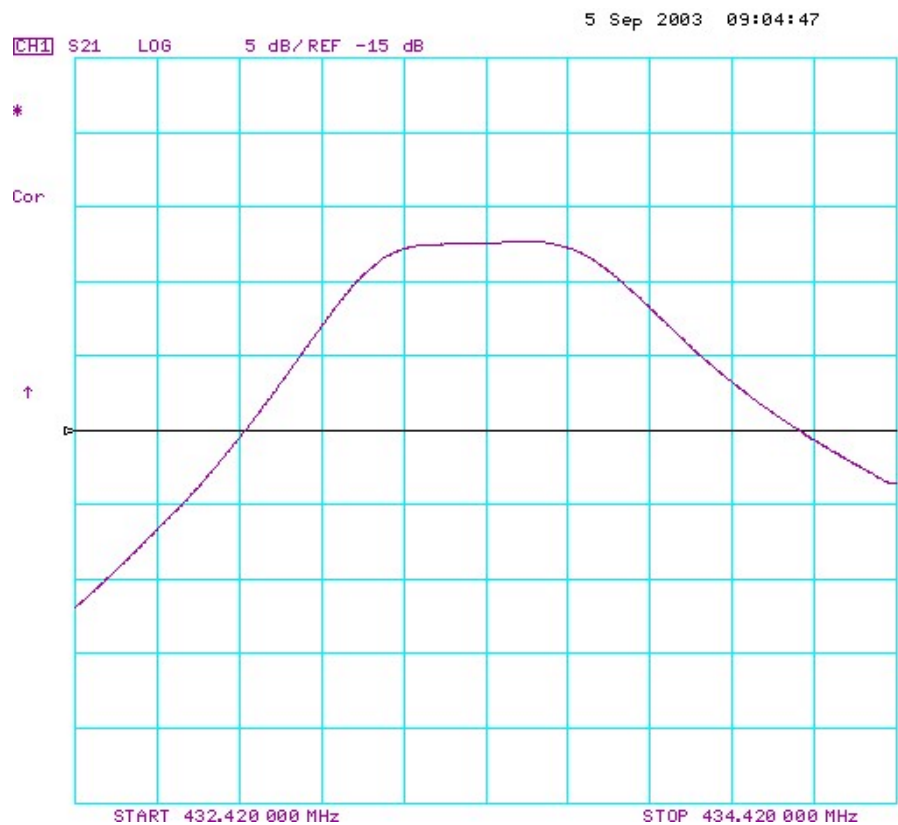
### B. ELECTRICAL CHARACTERISTICS:

Reference temperature: TA = -40 to 85°C

| Item                                                                                  | Min.                             | Typ.   | Max. | Note |
|---------------------------------------------------------------------------------------|----------------------------------|--------|------|------|
| Center frequency $F_C$ (MHz)                                                          | -                                | 433.42 | -    | 1    |
| Minimum I.L. (433.3~433.62 MHz) (dB) $IL_{min}$                                       | -                                | 2.2    | 4.0  |      |
| Pass band (relative to $IL_{min}$ )                                                   |                                  |        |      |      |
| 433.26~433.58 MHz (dB)                                                                | -                                | -      | 2.0  | 1    |
| 433.24~433.60 MHz (dB)                                                                | -                                | -      | 3.0  |      |
| 433.18~433.66 MHz (dB)                                                                | -                                | -      | 6.0  |      |
| Pass bandwidth (relative to $IL_{min}$ ) $BW_3$ (KHz)                                 | -                                | 680    | -    |      |
| Attenuation:( relative to $IL_{min}$ ) (dB )                                          |                                  |        |      |      |
| 10~413.5 MHz (dB )                                                                    | 45                               | 48     | -    | 1    |
| 413.5~427 MHz (dB )                                                                   | 40                               | 43     | -    |      |
| 427~432.34 MHz (dB )                                                                  | 20                               | 25     | -    |      |
| 434.42~441.5 MHz (dB )                                                                | 10                               | 15     | -    |      |
| 441.5~549.5 MHz (dB )                                                                 | 33                               | 38     | -    |      |
| 549.5~1000 MHz (dB )                                                                  | 45                               | 50     | -    |      |
| Impedance at $F_C$ ; Input $Z_{IN}=R_{IN}/C_{IN}$<br>Output $Z_{OUT}=R_{OUT}/C_{OUT}$ | 227Ω // 3.3 pF<br>227Ω // 3.3 pF |        |      |      |
| Turnover To (deg.C)                                                                   | 25 typ.                          |        |      |      |

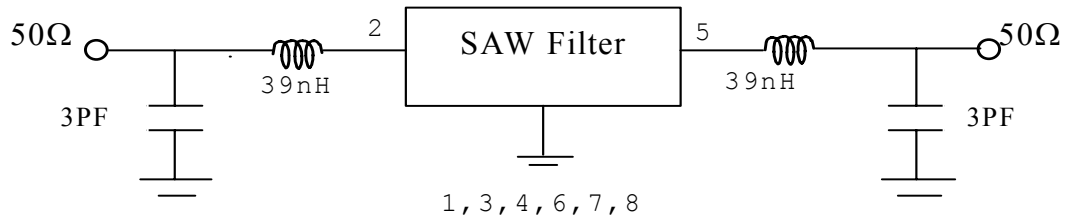
Note1. The standard definitions is in JIS C 6703

C.FREQUENCY CHARACTERISTICS:

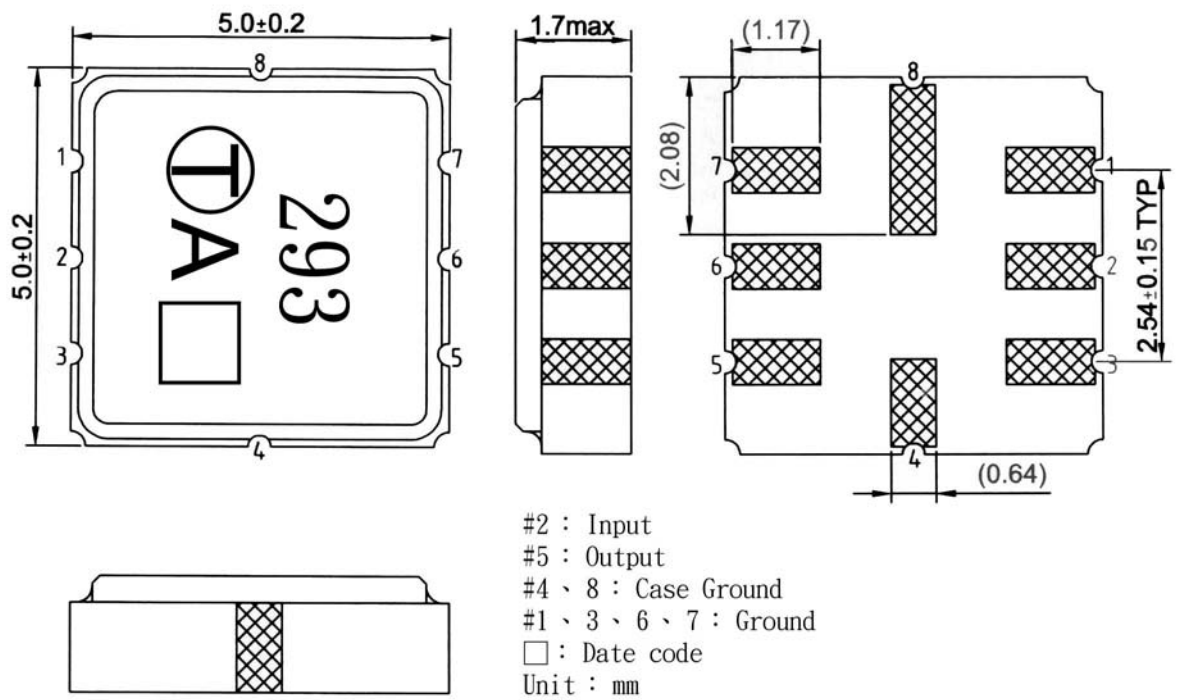


#### D. MEASUREMENT CIRCUIT:

HP Network analyzer

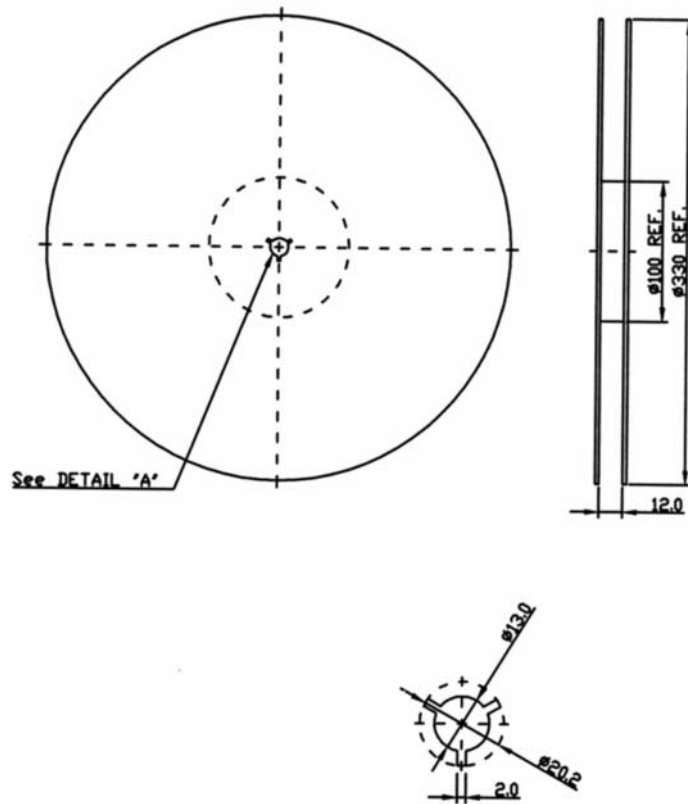


#### E. OUTLINE DRAWING:



## F. PACKING:

## 1. REEL DIMENSION



## 2.TAPE DIMENSION

