



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
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## Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 110.592 MHz (SMD 7.0mmX5.0mm)

TST Parts No.:TB0603A

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

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

Checked by: \_\_\_\_\_ Andy Lee

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

Date: \_\_\_\_\_ 2007/12/28



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## IF SAW Filter 110.592MHz SMD 7.0X5.0mm

MODEL NO.: TB0603A

Rev. No.1

### A. Maximum Rating:

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

RoHS Compliant  
Lead free  
Lead-free soldering

### B. Characteristics :

1. Ambient Temperature: 25 °C
2. Terminating Source Impedance: Single ended 50 ohm
3. Terminating Load Impedance: Single ended 50 ohm

| Item                             | Unit | Min.  | Type.   | Max. |
|----------------------------------|------|-------|---------|------|
| Center frequency, Fc             | MHz  | -     | 110.592 | -    |
| Insertion Loss, IL               | dB   | -     | 8.6     | 10   |
| 3 dB Bandwidth                   | MHz  | 1.152 | 1.44    | -    |
| Group Delay Variation Fc ± 0.576 | nsec | -     | 150     | 200  |
| Rejection                        |      |       |         |      |
| DC to Fc-3.4MHz                  | dB   | 38    | 42      | -    |
| Fc-3.4MHz to Fc-1.728MHz         |      | 28    | 42      | -    |
| Fc+1.728MHz to Fc+3.4MHz         |      | 28    | 34      | -    |
| Fc+3.4MHz to 200MHz              |      | 38    | 42      | -    |

### C. Frequency Characteristics :

#### 1. S21 Response

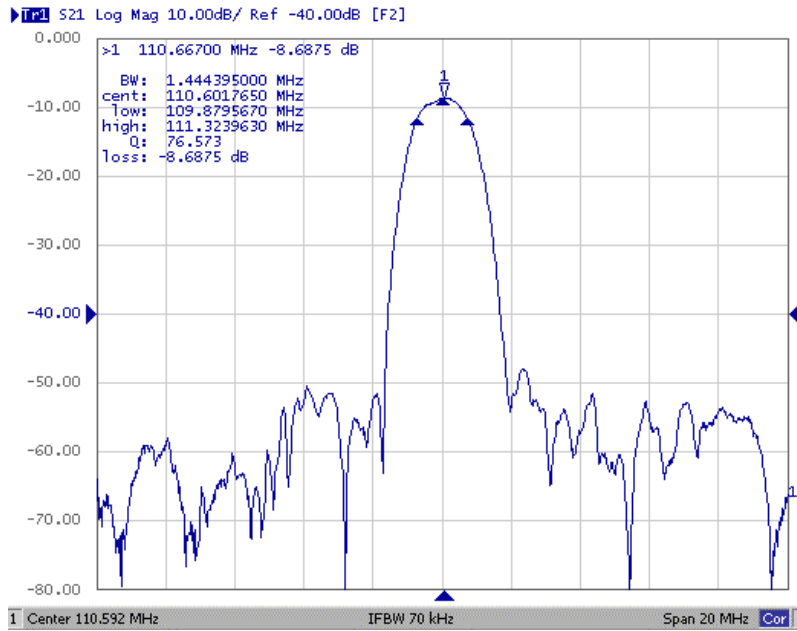


Fig. 1 Horizontal: 2MHz/Div; Vertical: 10dB/Div

#### 2. Passband Response

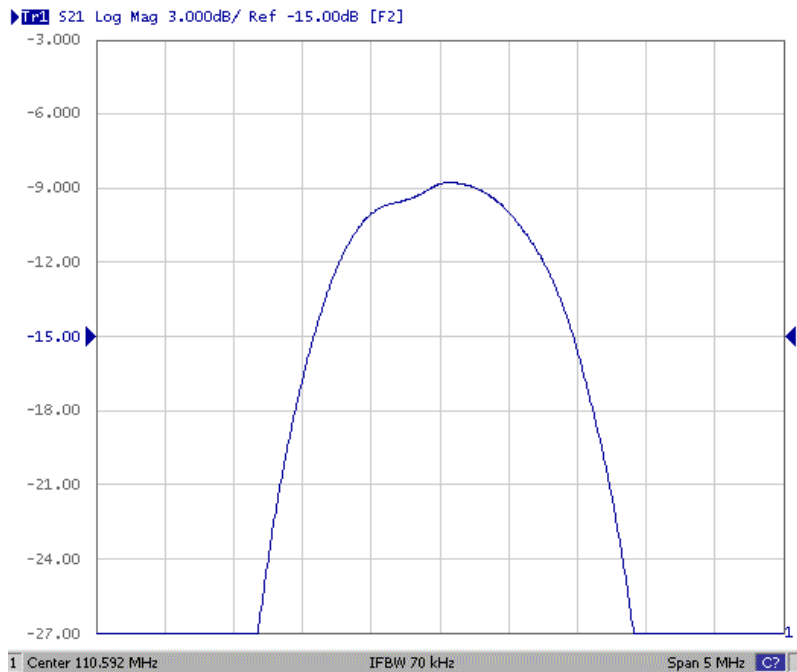


Fig. 2 Passband Horizontal: 0.5MHz/Div; Vertical: 3dB/Div

#### 3. Group Delay

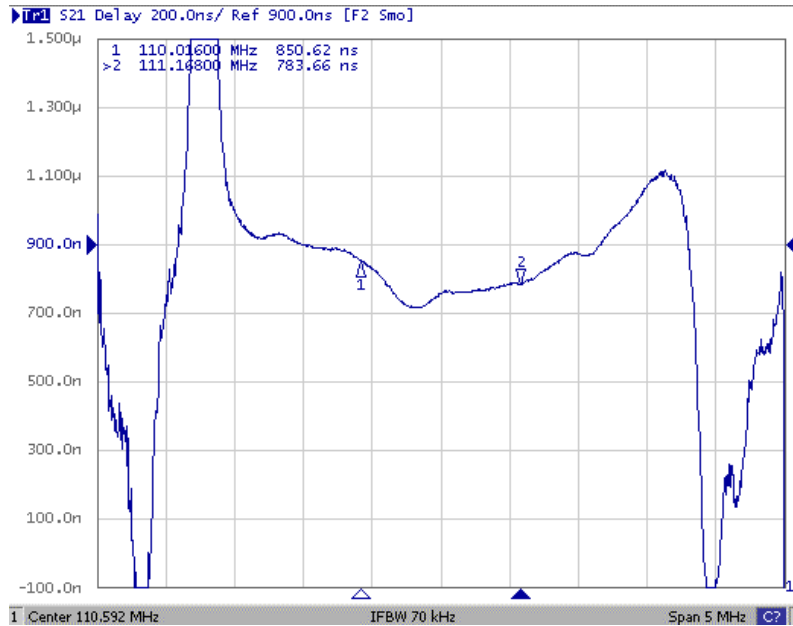
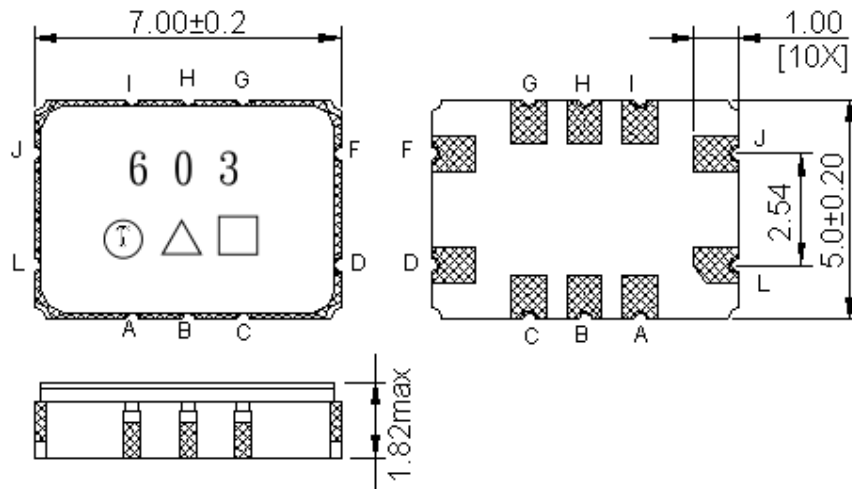


Fig. 3 Passband Horizontal: 0.5MHz/Div; Vertical: 200nS/Div

#### D. Outline Drawing:



#### Pin configuration

#J RF Input

#L RF Input ground

#D RF Output

#F RF Output ground

#A,B,C,G,H,I To be ground

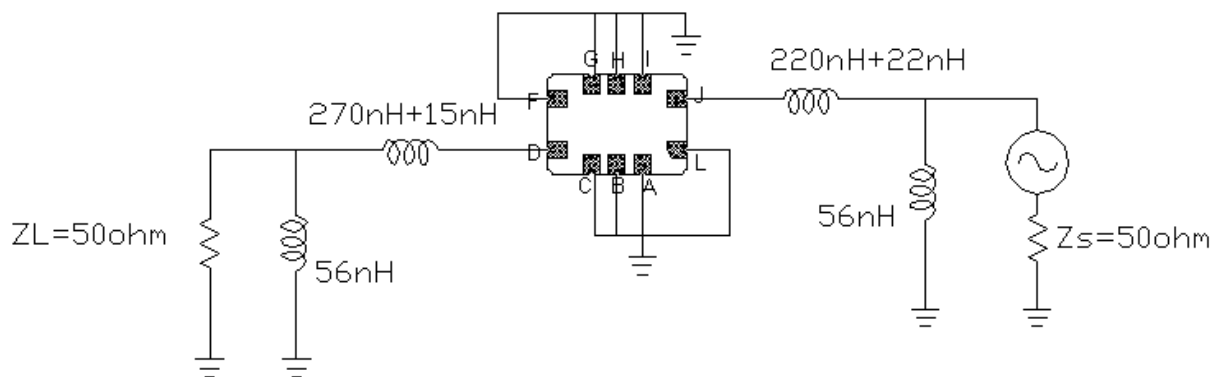
□ : Week Code (Follow the table from planner each year)

△ : Product / Year Code

Unit : mm

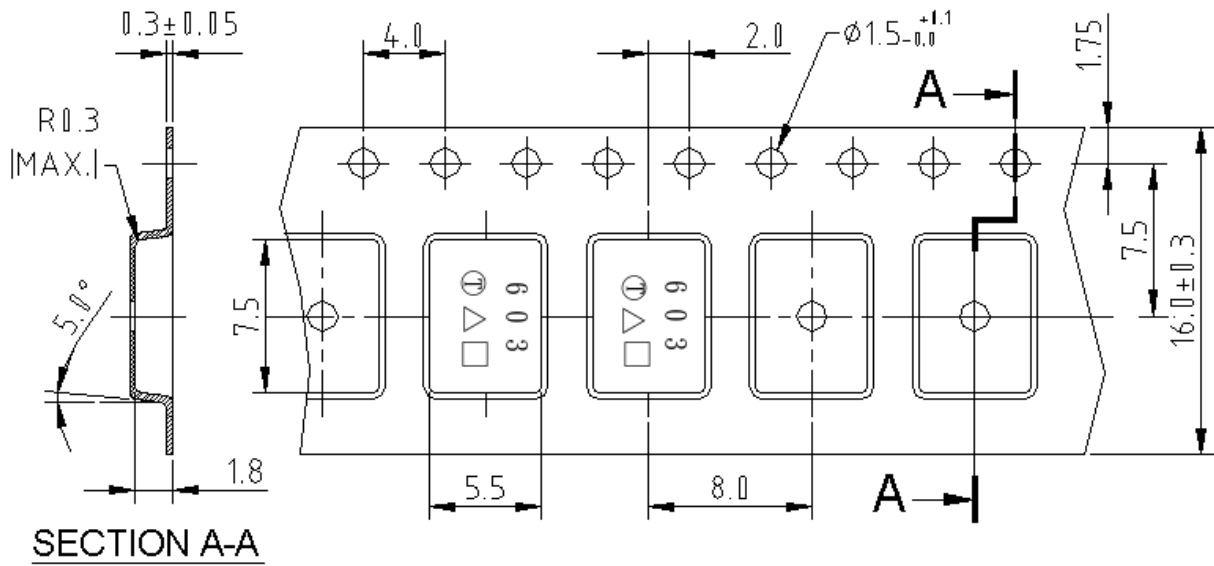
|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| Year         | 2005<br>2009 | 2006<br>2010 | 2007<br>2011 | 2008<br>2012 |
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

**E. Measurement Circuit:**





## 2. TAPE DIMENSION



## H. Recommended Reflow Profile :

