



# 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 125 MHz (SMD 13.3mmX6.5mm)

TST Parts No.:TB0467A

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

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

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

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

Date: \_\_\_\_\_ 2006/12/28



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## IF SAW Filter 125 MHz SMD 13.3mmX6.5mm

MODEL NO.: TB0467A

REV. NO.1

### A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +70°C
2. Storage Temperature: -40 °C ~ +85 °C
3. Input Power Level: 10dBm

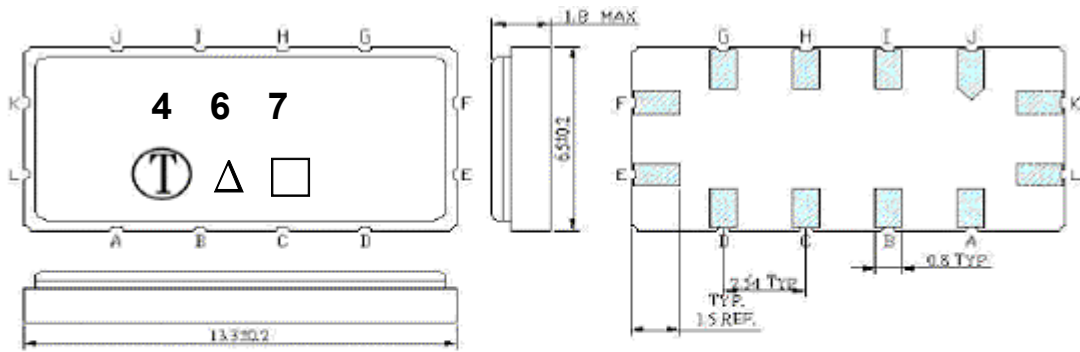
RoHS Compliant  
Lead free  
Lead-free soldering

### B. Characteristics :

1. Ambient Temperature: 25 °

| Characteristics  | Value |      |      | Note. |
|--|-------|------|------|-------|
|  | Min.  |      | Max. |       |
| Center frequency $F_C$ MHz                                 | -     | 125  | -    | -     |
| Maximum Insertion loss I.L. dB                             | -     | 12.5 | 13.5 | -     |
| 1dB Bandwidth MHz  | -     | 29.0 | -    |       |
| 3dB Bandwidth MHz  | 30.0  | 30.2 | -    |       |
| 40dB Bandwidth MHz   | -     | 34.5 | 39.0 |       |
| Passband Ripple ( $F_C \pm 14$ MHz) dB                     | -     | 0.64 | 1.00 | -     |
| Group Delay Ripple ( $F_C \pm 14$ MHz) nS                  | -     | 15   | 50   | -     |
| Temp Coefficient ppm/C                                     |       | -86  |      |       |
| Absolute Delay uS  |       | 0.88 |      |       |
| Attenuation:( Reference level from minimum insertion loss) |       |      |      |       |
| 1) Ultimate Attenuation dB                                 | 40    | 55   | -    | -     |

**C.OUTLINE DRAWING:**



Unit: mm

**Pin configuration**

#K RF Input

#L RF Input ground

#E RF Output

#F RF Output ground

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

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

△ : Product / Year Code

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

## D. Frequency Characteristics :

### 1. S21 Response

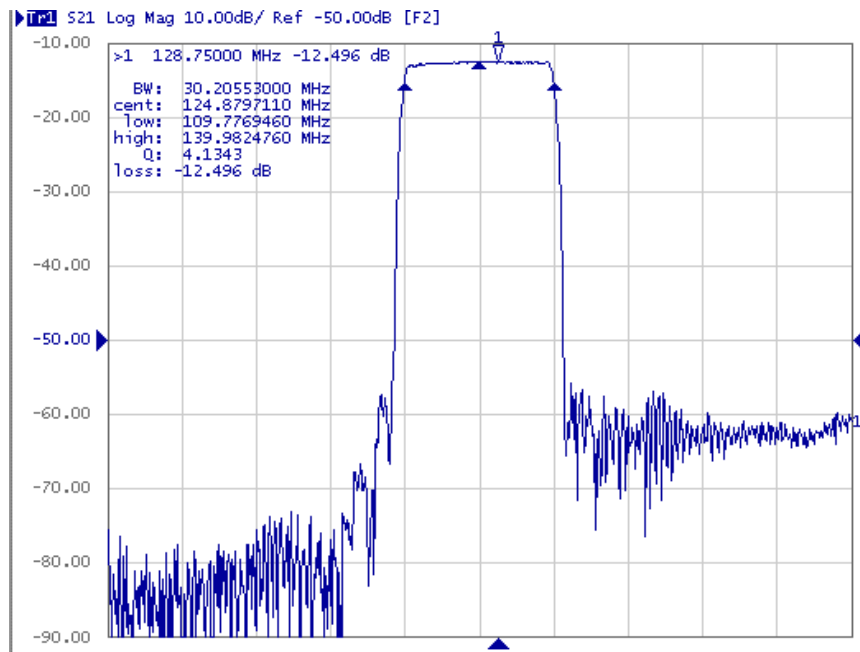


Fig. 1 S21 Response Horizontal: 15MHz/Div; Vertical: 10dB/Div

### 2. Pass band Ripple

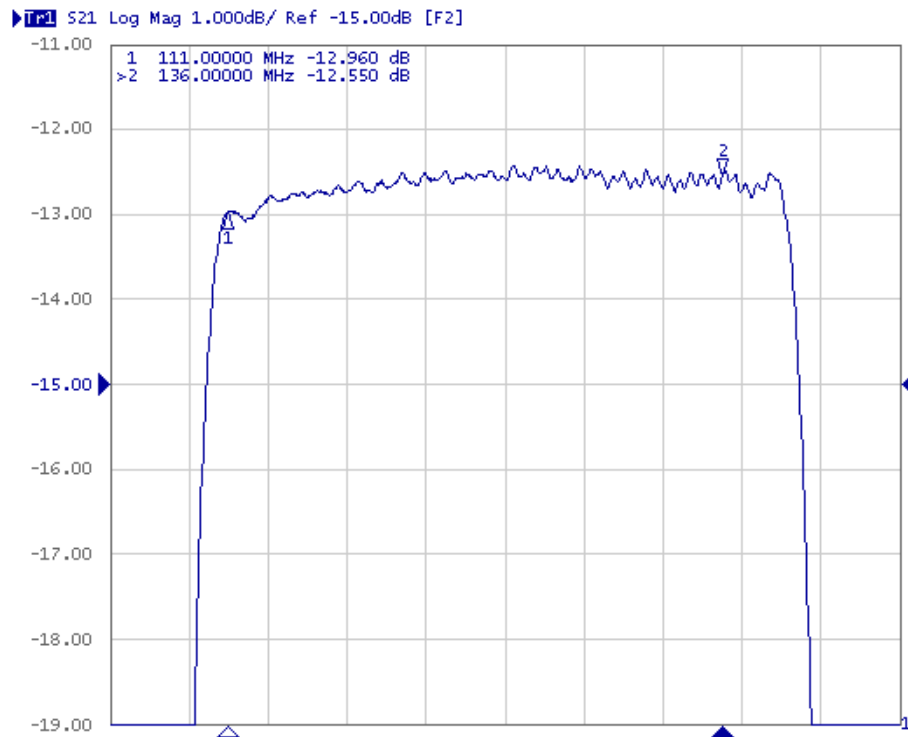


Fig. 2 Inband ripplen Horizontal: 4MHz/Div; Vertical: 1dB/Div

### 3. S21 Response

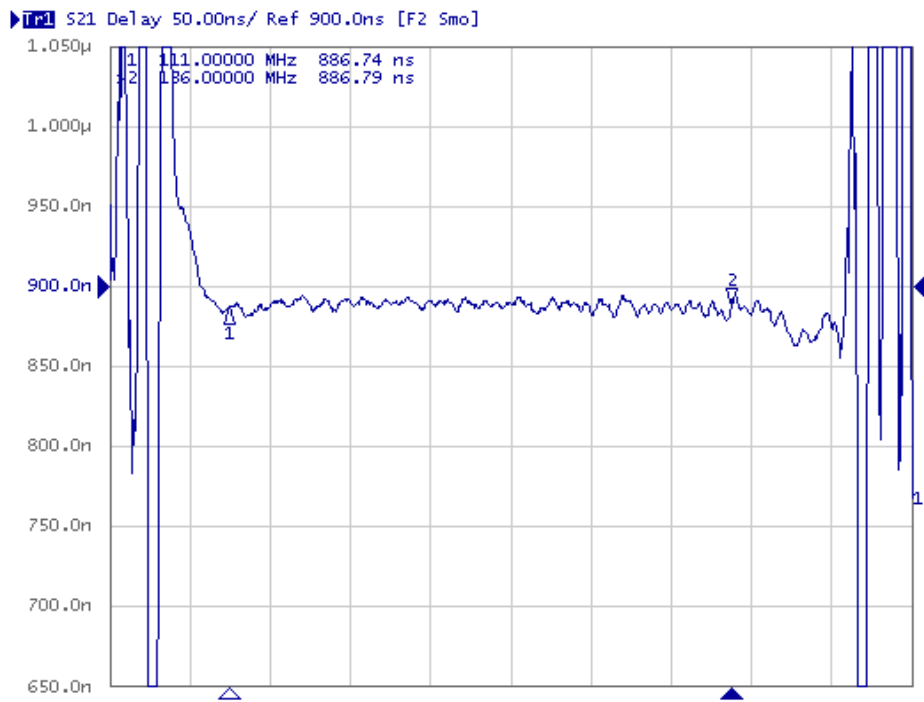


Fig. 3 Group Delay Horizontal: 4MHz/Div; Vertical: 50nS/Div

### 4. Wide band Response

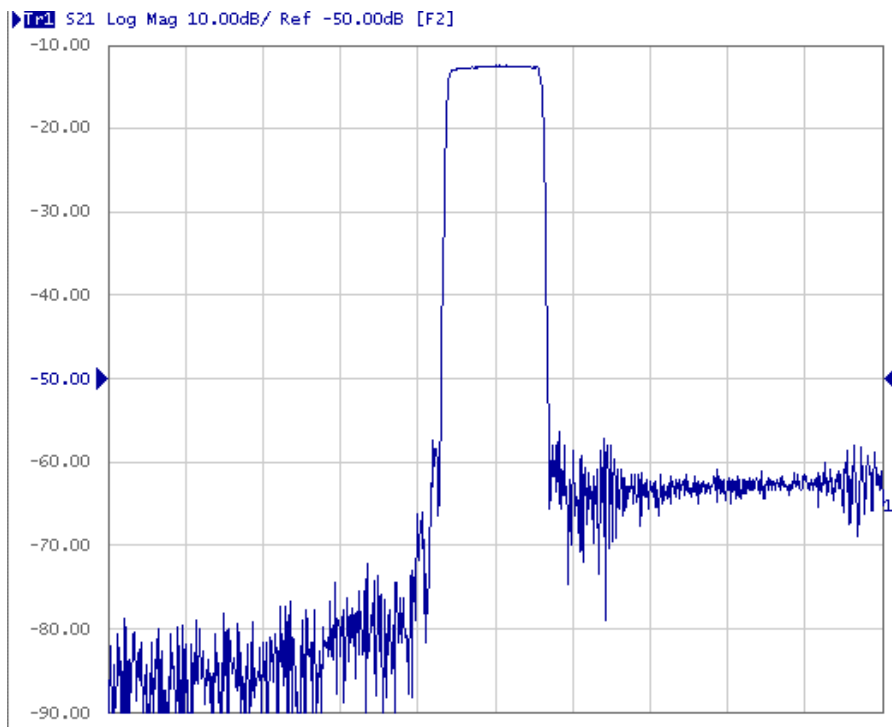
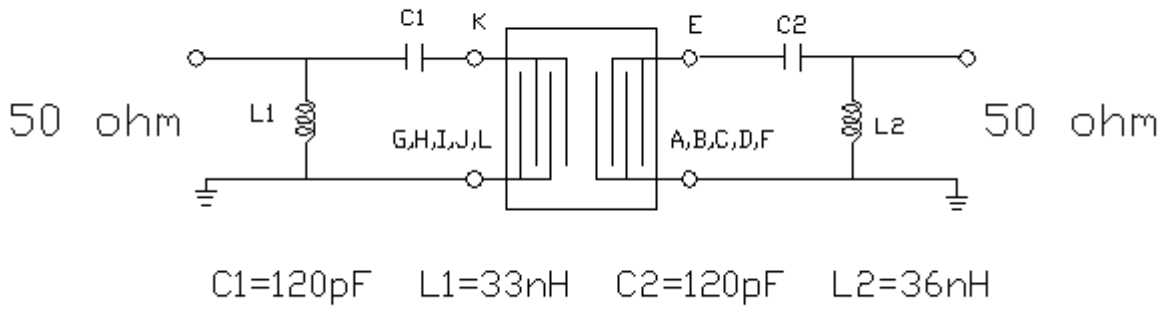
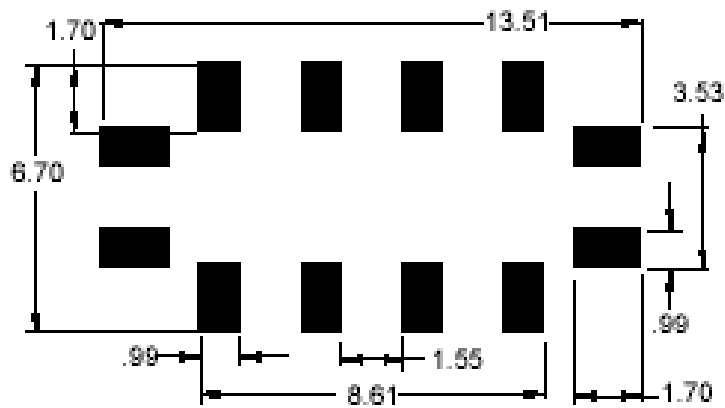


Fig. 2 Wide band Horizontal: 25MHz/Div; Vertical: 10dB/Div

**E. TEST FIXTURE :**

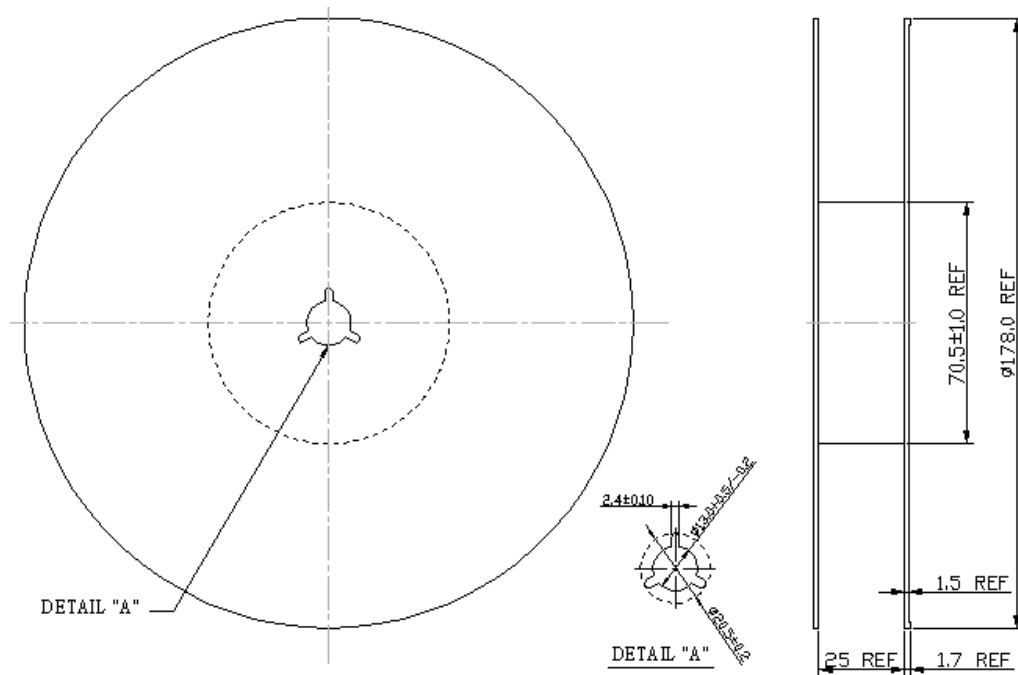


**F. PCB FOOTPRINT**



## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION

