



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: IF SAW Filter 72.96 MHz (SMD 13.3mmX6.5mm)

TST Parts No.:TB0466A

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

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

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

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

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

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

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

Date:\_\_\_\_\_ 2007/10/29



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## IF SAW Filter 72.96MHz SMD13.3X6.5mm

MODEL NO.: TB0466A

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

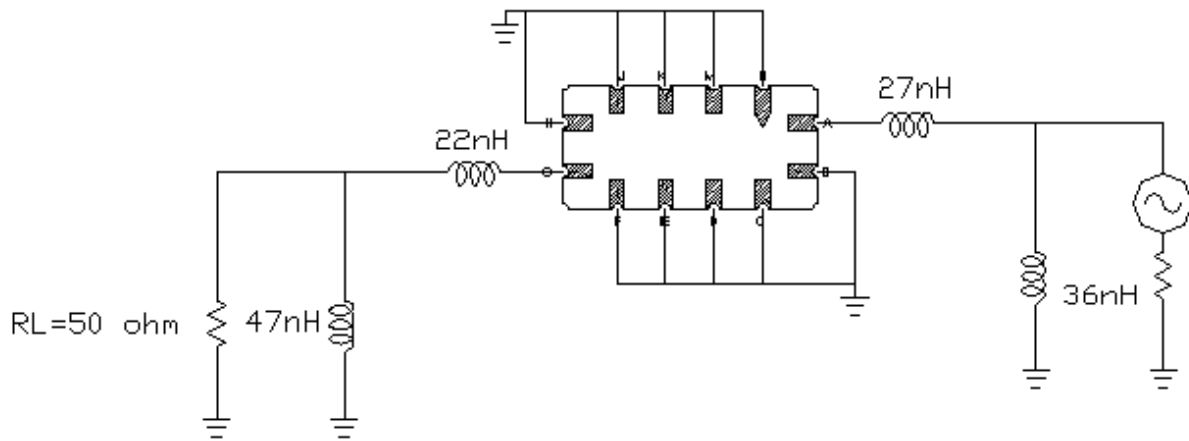
RoHS Compliant  
Lead free  
Lead-free soldering

### B. Characteristics :

1. Ambient Temperature: 25 °C

| Characteristics                                            | Value |       |      | Note |
|------------------------------------------------------------|-------|-------|------|------|
|                                                            | Min.  | Typ.  | Max. |      |
| Center frequency $F_C$ MHz                                 | -     | 72.96 | -    | -    |
| Minimum Insertion loss I.L. dB                             | -     | 11    | 14   | -    |
| Passband Ripple (69.96~75.96MHz) dB                        | -     | 0.5   | 1.0  | -    |
| Group Delay Ripple (69.96~75.96MHz) nsec                   | -     | 108   | 200  | -    |
| Group Delay(mean value in PassBand) usec                   | -     | 1.1   | 1.3  | -    |
| Input Return Loss (69.96~75.96MHz) dB                      | 12    | 16    | -    | -    |
| Output Return Loss (69.96~75.96MHz) dB                     | 8     | 12    | -    | -    |
| Attenuation:( Reference level from minimum insertion loss) |       |       |      | dB   |
| 1) DC ... 60 MHz dB                                        | 40    | 57    | -    | -    |
| 2) 60MHz ... 67.96 MHz dB                                  | 25    | 37    | -    | -    |
| 3) 82 MHz ... 130 MHz dB                                   | 38    | 42    | -    | -    |
| Temp Coefficient ppm/° C                                   | -     | -23   | -    | -    |

### C. Test Fixture :



### D. Frequency Characteristics :

#### 1. S21 Response

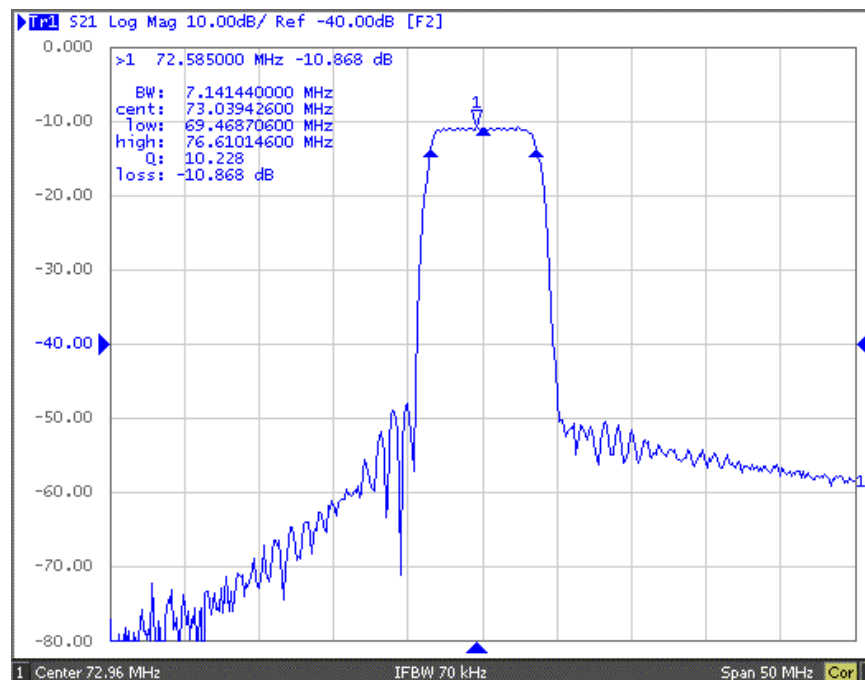


Fig. 1 S21 Response Horizontal: 5MHz; Vertical: 10dB/Div

2. Passband Response

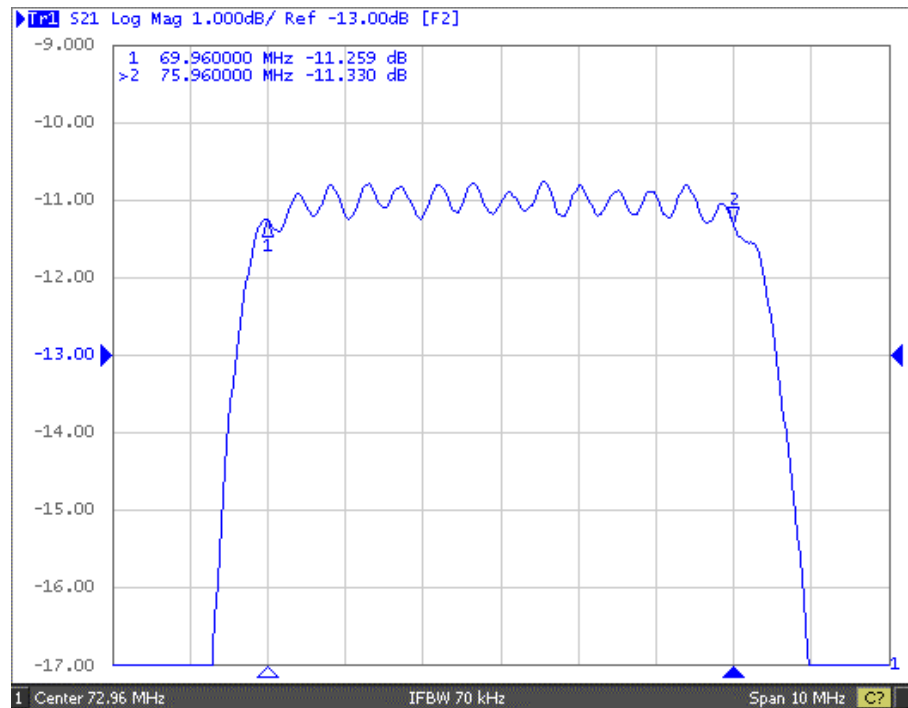


Fig. 2 Passband Horizontal: 1MHz; Vertical: 1dB/Div

3. Group Delay

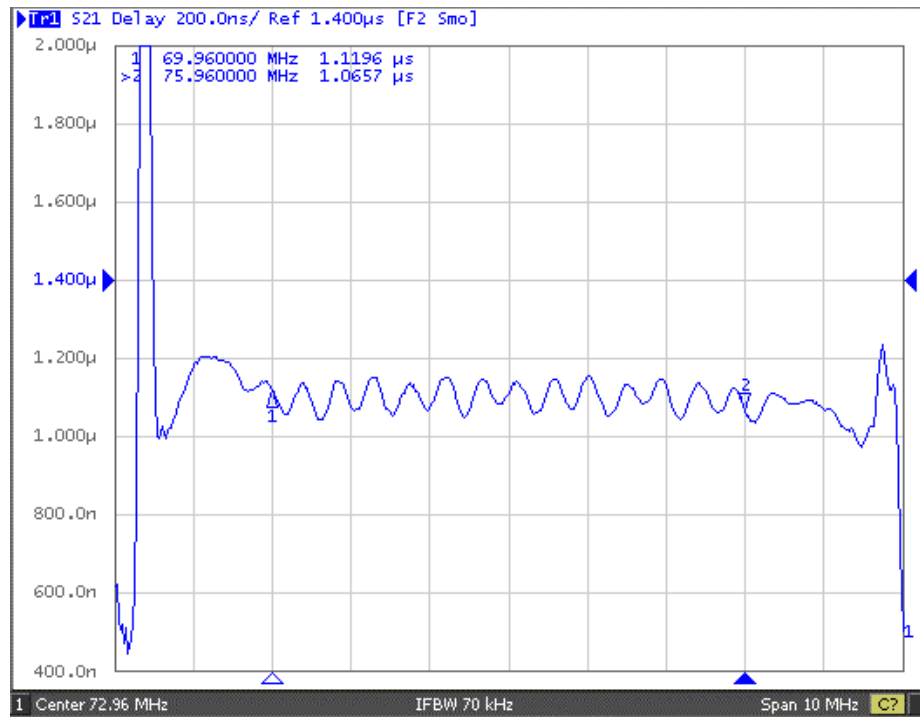
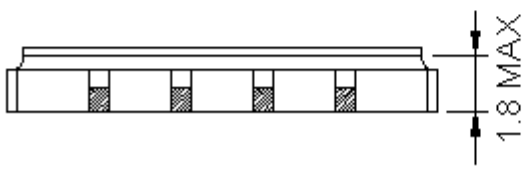
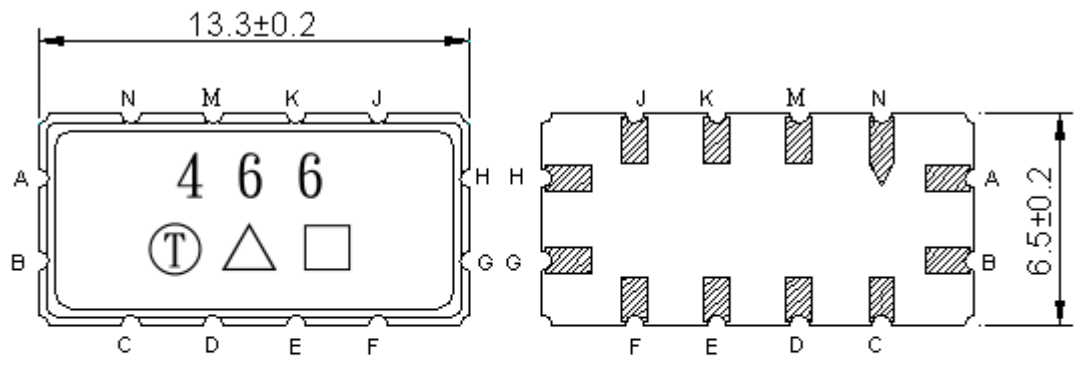


Fig. 2 Group Delay Horizontal: 1MHz; Vertical: 200nS/Div

# E. Outline Drawing:

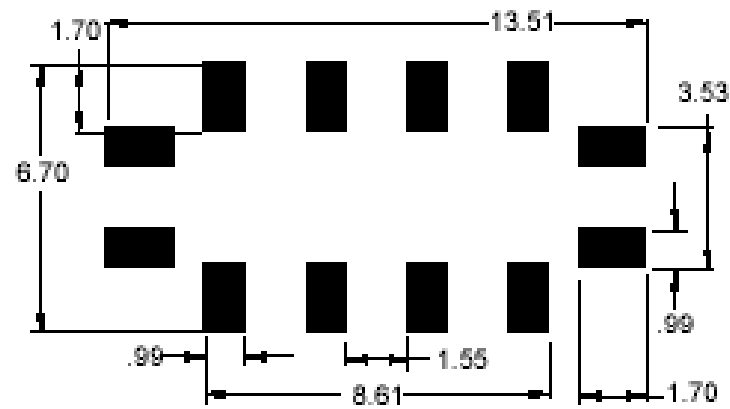


## Pin configuration

- #A RF Input
- #B RF Input ground
- #G RF Output
- #H RF Output ground
- #C,D,E,F,J,K,M,N To be ground
- : Week Code (Follow the table from planner each year)
- △ : Product / Year Code

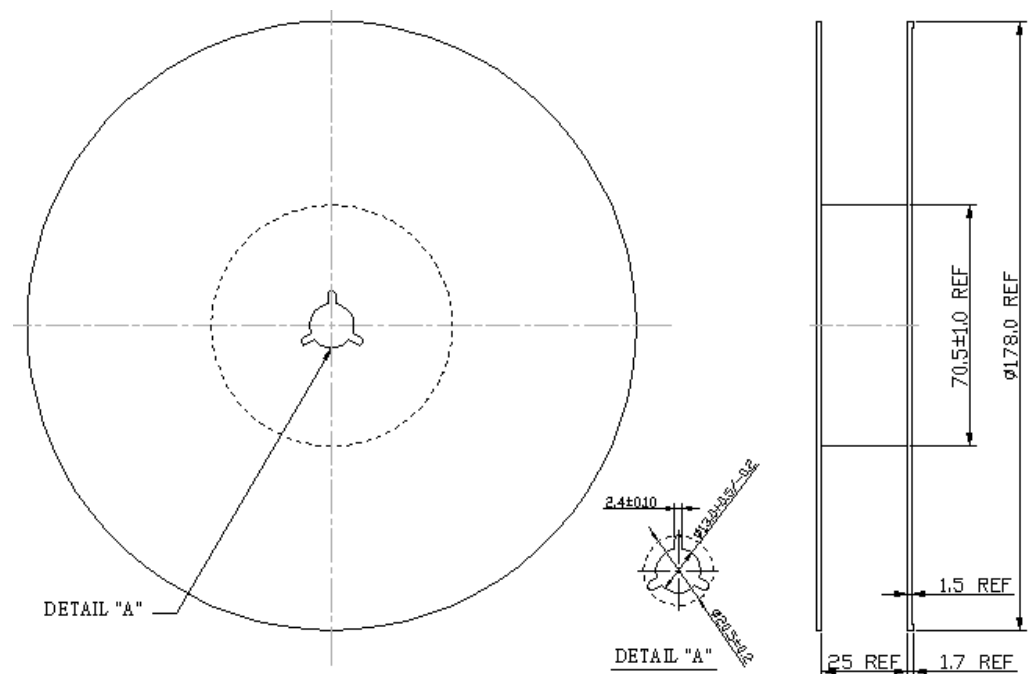
|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| Year         | 2005<br>2009 | 2006<br>2010 | 2007<br>2011 | 2008<br>2012 |
| Product Code | B            | b            | <u>B</u>     | <u>b</u>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

F. PCB FOOTPRINT

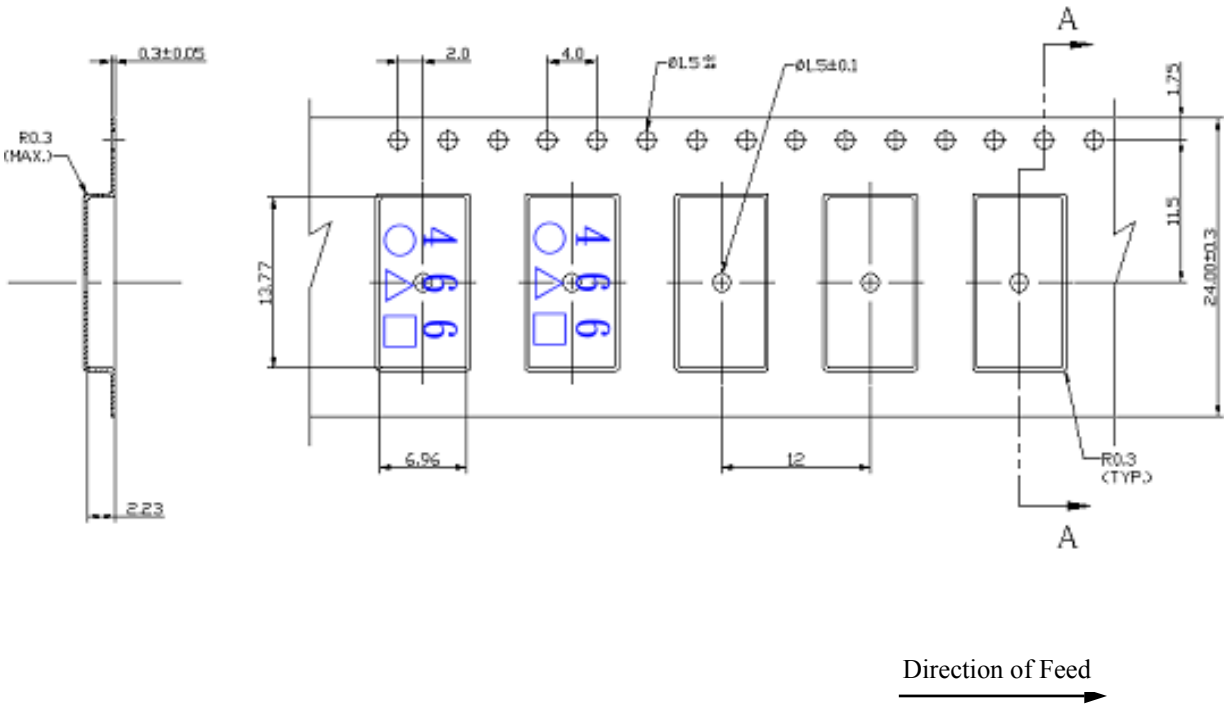


G. PACKING:

1. REEL DIMENSION



3. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

