# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Tao-Yuan, 324, Taiwan, R.O.C.
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## Approval Sheet for Product Specification

Issued Date:

Product Name: 480MHz IF SAW Filter (BW=9 MHz)

TST Parts No.: TB0561A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Yu

Approval by: Francis Chen

Date: 12/19/2007

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SAW Filter 480MHz (SMD 5.0×7.0 mm)
MODEL NO.: TB0561A Rev. NO. 1

RoHS Compliant
Lead free
Lead-free soldering

A. MAXIMUM RATINGS:

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

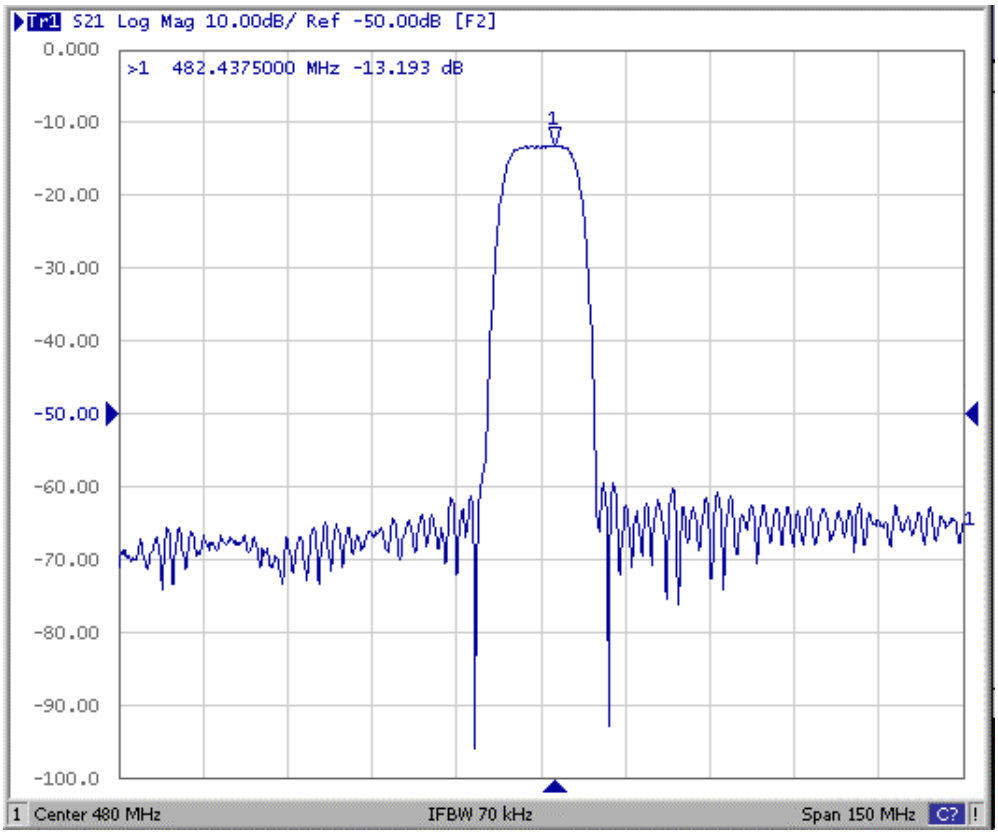
B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

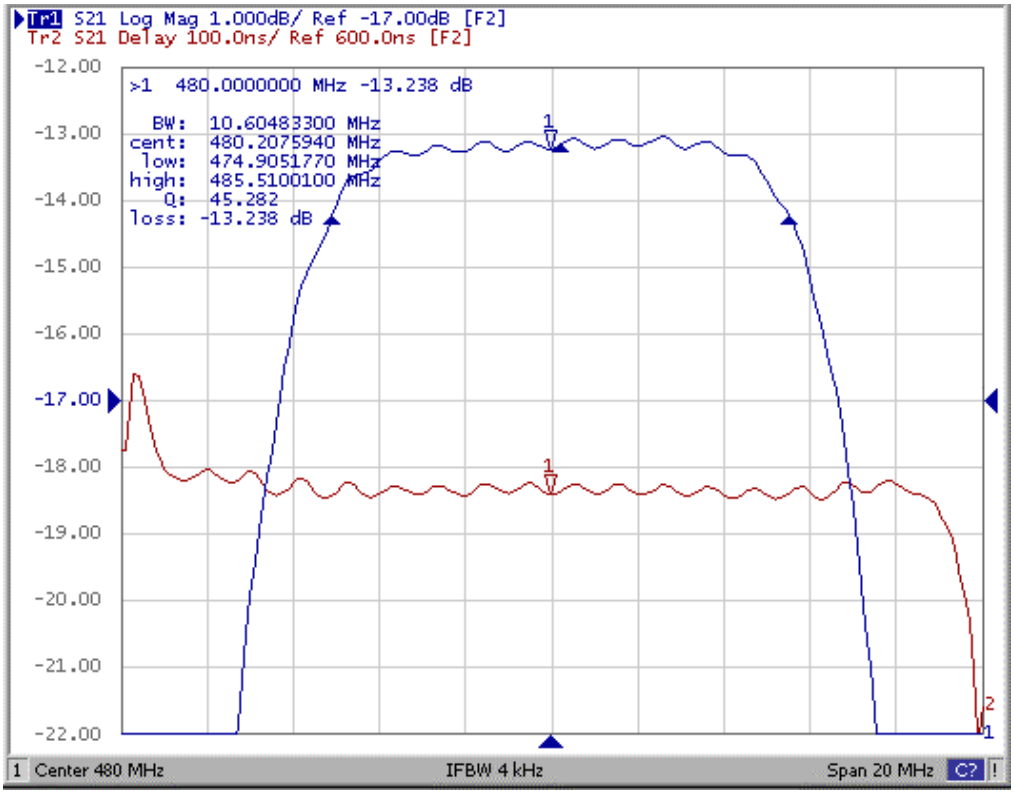
| Characteristics | Value | | | Note |
|---|---|---|---|---|
| | Min. | Typ. | Max. | |
| Center frequency $F_C$ MHz | - | 480 | - | - |
| Minimum Insertion loss I.L. dB | - | 13.1 | 14 | - |
| 1 dB Bandwidth MHz | 9.0 | 10.6 | - | - |
| 3 dB Bandwidth MHz | 10.0 | 12.5 | - | - |
| 40 dB Bandwidth MHz | - | 19.3 | 22.0 | - |
| Return Loss dB | 10 | 12 | | |
| Amplitude Ripple (475.25~484.25MHz) dB P-P | - | 0.5 | 1.0 | - |
| Phase Linearity (475.25~484.25MHz) deg P-P | - | 5.0 | - | - |
| Group Delay Ripple (475.25~484.25MHz) ns P-P | - | 35 | 75 | - |
| Attenuation (Reference level from Minimum insertion loss) | | | | |
| (1) 10 ~ 220MHz dB | 50 | 64 | - | - |
| (2) 220 ~ 400MHz dB | 40 | 53 | - | - |
| (3) 400 ~ 468MHz dB | 40 | 47 | - | - |
| (4) 490 ~ 550MHz dB | 40 | 47 | - | - |

## C. Frequency Characteristics :

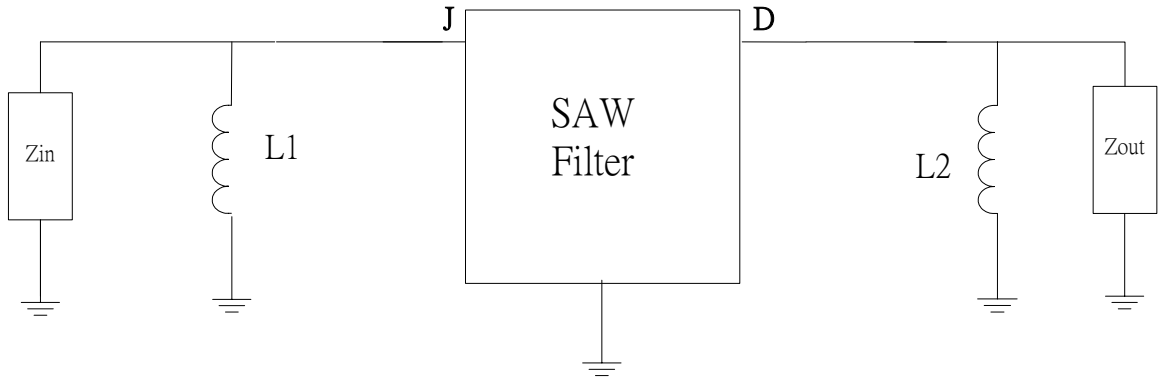
1. S21 Response:(span 150MHz)




2. Passband Response: (span 20MHz)



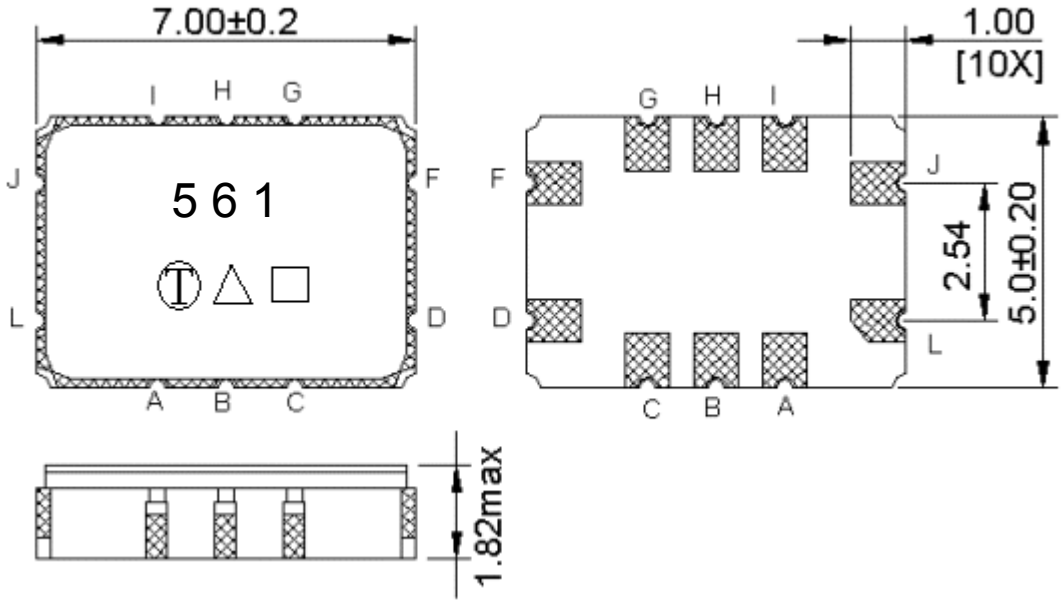
D. TEST CIRCUIT:




Zin = Zout =50 ohm

L1=10nH, L2=10nH.

E. OUTLINE DRAWING:




Pin J: RF input

Pin D: RF output

Pin K, L, A, B, C, E, F , I, H, G: Ground

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

Unit : mm

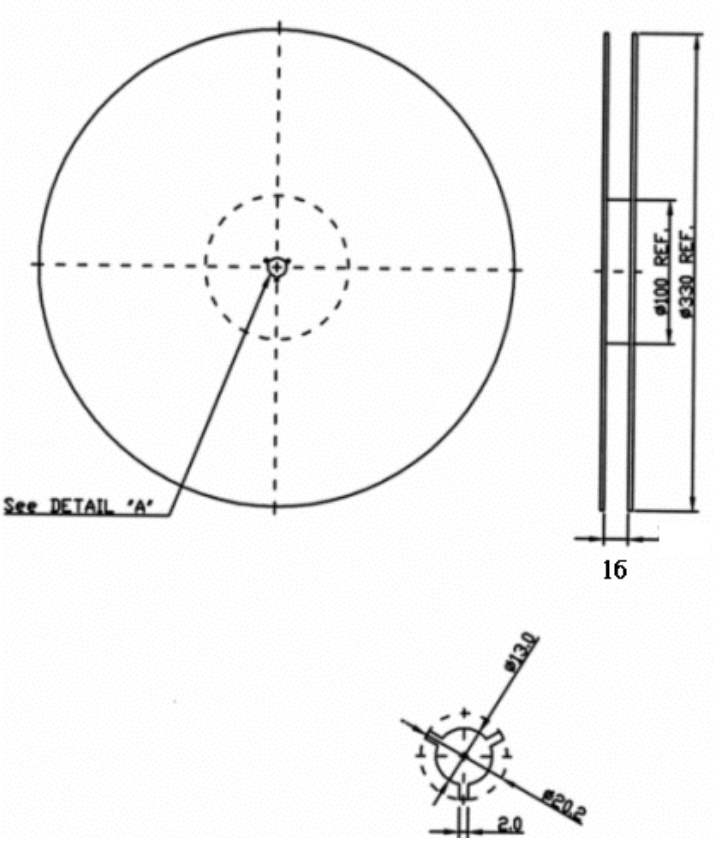
△ : Product / Year Code

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

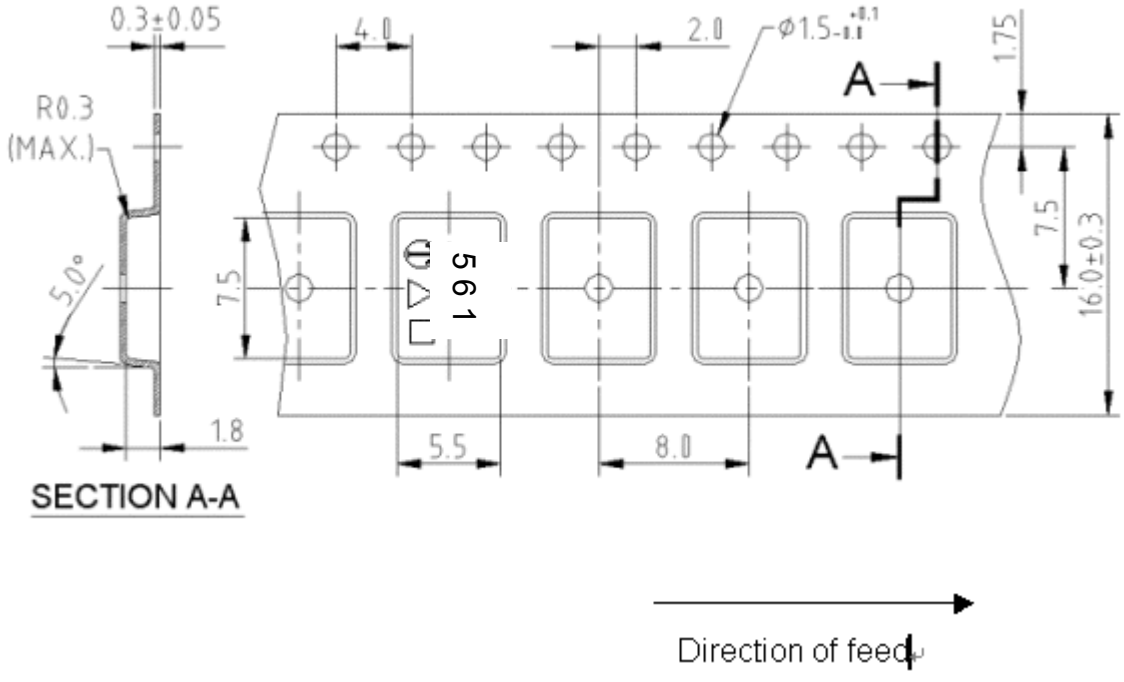
F.PACKING:

1.REEL DIMENSION

(Reel Count: 7”=1000 typ.; 13”=2000 typ. )




2.TAPE DIMENSION



G. Recommended Reflow Profile:

