



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Tao-Yuan, 324, Taiwan, R.O.C.

TEL: 886-3-4690038 FAX: 886-3-4697532

E-mail: [tstsales@mail.taisaw.com](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Approval Sheet for Product Specification

Issued Date: 03/15/2006

Product Name: 268.4MHz IF SAW Filter (BW=35 MHz)

TST Parts No.: TB0377A

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

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

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

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

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

Checked by: \_\_\_\_\_ Andy Yu

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

Date: \_\_\_\_\_ 03/15/2006



# TAI-SAW TECHNOLOGY CO., LTD.

No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.

TEL: 886-3-4690038

FAX: 886-3-4697532

E-mail: [tstsales3@mail.taisaw.com](mailto:tstsales3@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

SAW Filter 268.4MHz (SMD 5.0×5.0 mm)

MODEL NO.: TB0377A

Rev. NO. 1

## A. MAXIMUM RATINGS:

1. Input Power Level: 10 dBm
2. Operating Temperature: -20°C to 80°C
3. Storage Temperature: -40°C to 80°C

RoHS Compliant  
Lead free  
Lead-free soldering

## B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25 °C

| Characteristics                                          | Value |       |      | Note |
|----------------------------------------------------------|-------|-------|------|------|
|                                                          | Min.  | Typ.  | Max. |      |
| Center frequency $F_c$ MHz                               | -     | 268.4 | -    | -    |
| Minimum Insertion loss I.L. dB                           | -     | 12.4  | 14.0 | -    |
| 1 dB Bandwidth MHz                                       | 35.0  | 40.5  | -    | -    |
| 20 dB Bandwidth MHz                                      | -     | 50    | 55   | -    |
| Amplitude Ripple ( $F_c \pm 17.5\text{MH}$ ) dB          | -     | 0.75  | 1.0  | -    |
| Input Power dBm                                          | -     | -     | +10  | -    |
| Relative Rejection (Reference to Minimum Insertion loss) |       |       |      |      |
| 205.9~240.9 MHz                                          | 20    | 31    | -    | -    |

### C. FREQUENCY CHARACTERISTICS:

(1) wide band of Response: (span: 300MHz)

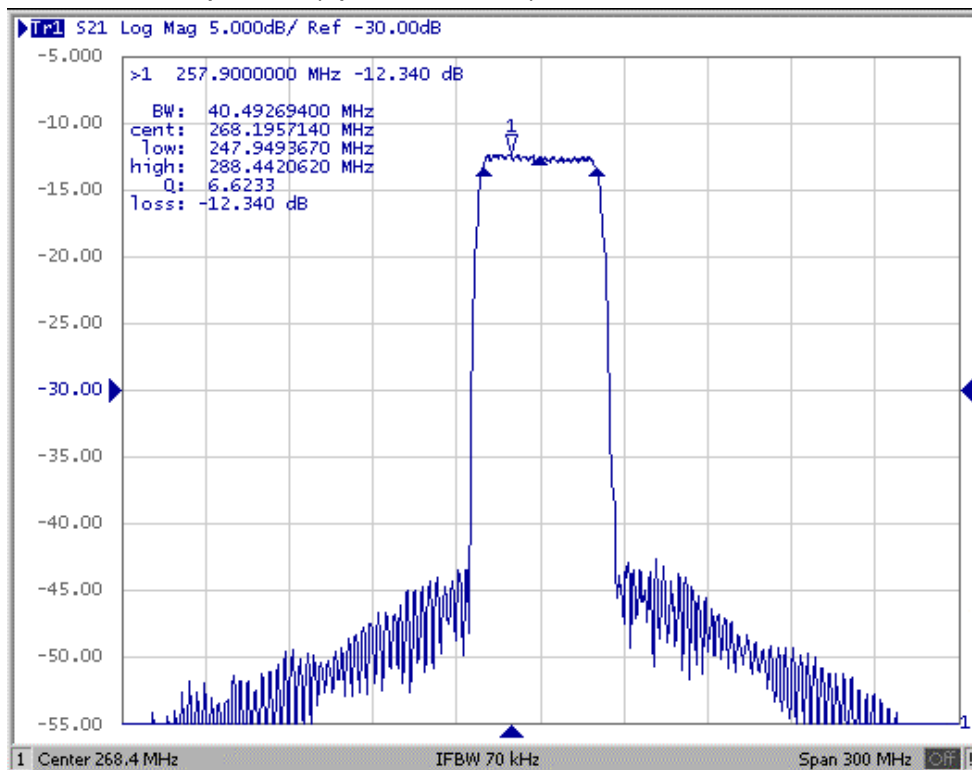


Fig1.S21 Response Horizontal:30MHz/Div Vertical: 10dB/Div

(2) Passband of Response: (span: 50MHz)

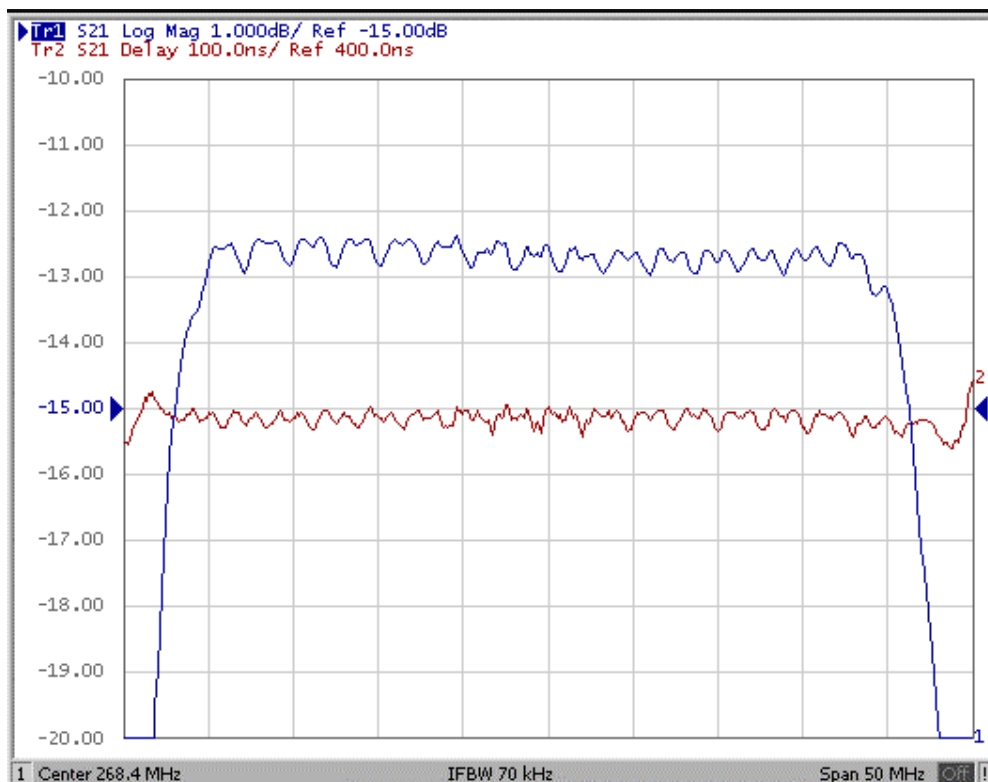
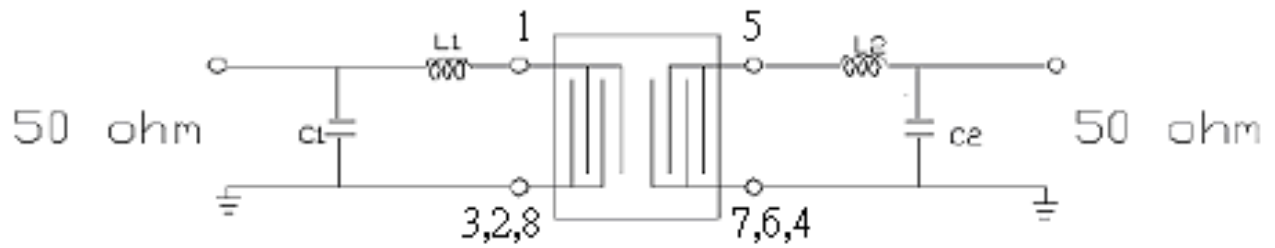


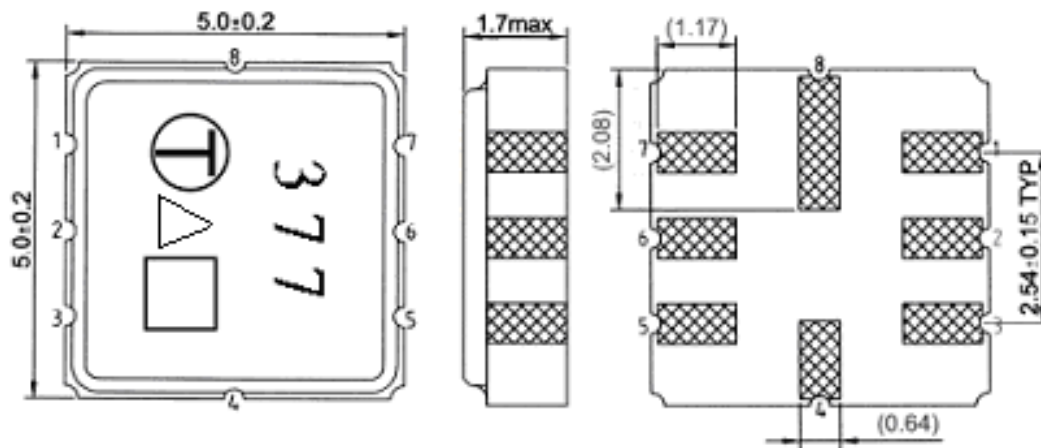
Fig2.S21 Response Horizontal:5MHz/Div Vertical: 1dB/Div

#### D. TEST CIRCUIT:



L1=56nH, L2=39nH, C1=9pF, C2=6pF

#### E. OUTLINE DRAWING:



Pin 1: RF input

Pin 5: RF output

Pin 4,8: Case Ground

Pin 2,3,6,7: Ground

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

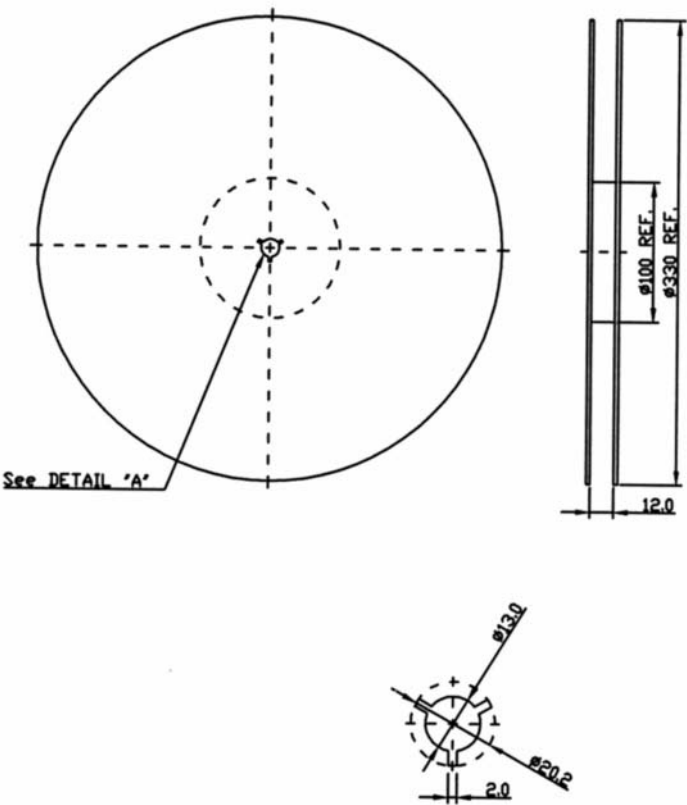
Unit : mm

△ : Product / Year Code

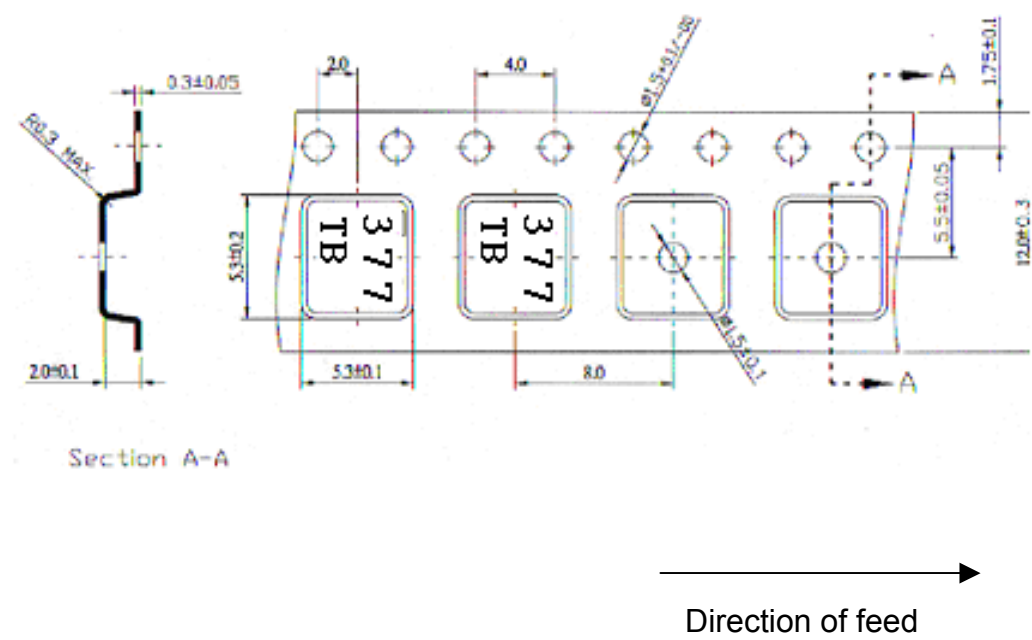
| Year         | 2005<br>2009 | 2006<br>2010 | 2007<br>2011 | 2008<br>2012 |
|--------------|--------------|--------------|--------------|--------------|
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

F.PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



G. Recommended Reflow Profile:

