



# TAI-SAW TECHNOLOGY CO., LTD.

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

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 460 MHz SMD 3.8x3.8 mm

TST Parts No.:TA1010A

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

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

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

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

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

Checked by:\_\_\_\_\_ David Chang 張閔智

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

Date:\_\_\_\_\_ 2009/03/26



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## SAW Filter 460 MHz

MODEL NO.:TA1010A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -30°C to +60°C
4. Storage Temperature: -40°C to +85°C

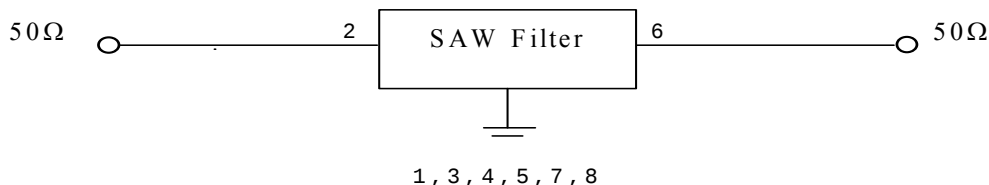
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

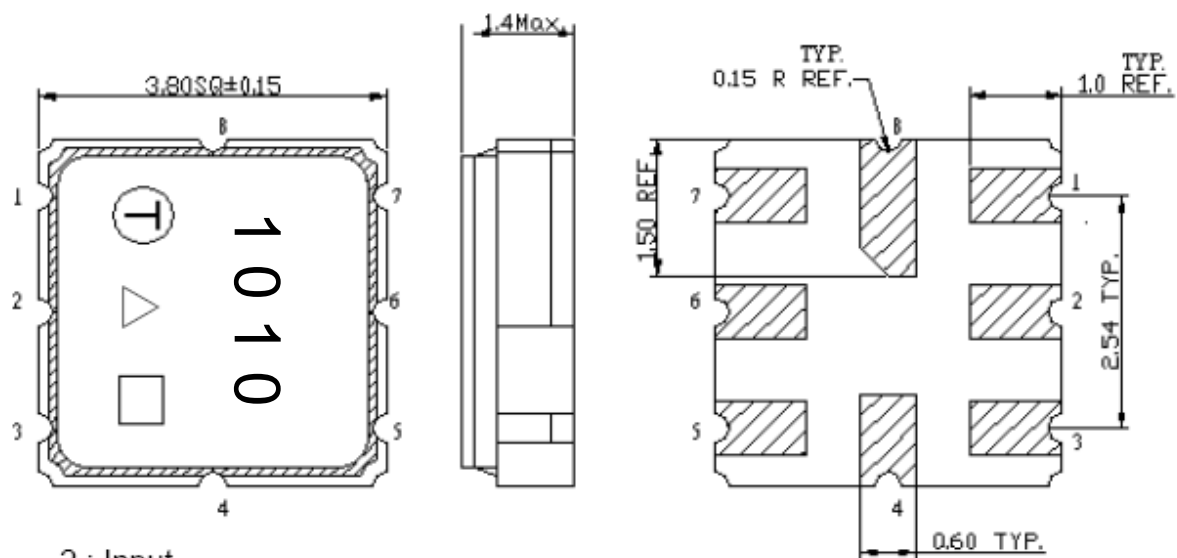
| Item                                    | Unit   | Min. | Type. | Max. |
|-----------------------------------------|--------|------|-------|------|
| Center frequency Fc                     | MHz    | -    | 460   | -    |
| Insertion loss (450~470 MHz) IL         | dB     | -    | 2.6   | 3.2  |
| Amplitude Ripple (450~470 MHz)          | dB     | -    | 1.2   | 2.4  |
| Return loss (450~470 MHz)               | dB     | 7    | 8.2   | -    |
| Attenuation (Reference level from 0 dB) |        |      |       |      |
| 0.3 ~ 300 MHz                           | dB     | 30   | 58    | -    |
| 300 ~ 380 MHz                           | dB     | 24   | 56    | -    |
| 380 ~ 430 MHz                           | dB     | 15   | 54    | -    |
| 504.825 ~ 524.825 MHz                   | dB     | 12   | 44    | -    |
| 559.65 ~ 579.65 MHz                     | dB     | 28   | 56    | -    |
| 669.3 ~ 689.3 MHz                       | dB     | 24   | 54    | -    |
| 689.3 ~ 1000 MHz                        | dB     | 26   | 44    | -    |
| Temperature Coefficient of Frequency    | ppm/°C | -    | -36   | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



## D.OUTLINE DRAWING:



2 : Input

6: Output

1,3,4,5,7,8: Ground

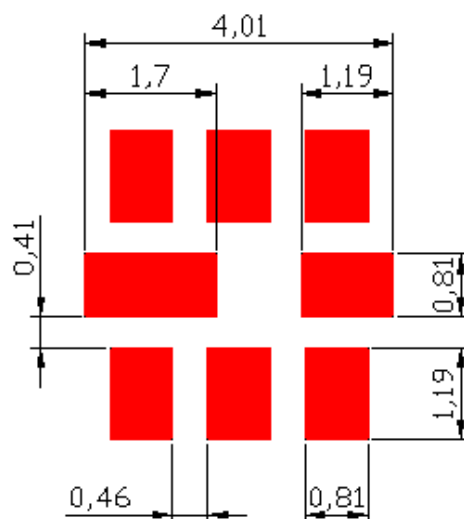
△ : Year Code

□ : Date Code (W01->A, W02->B,...,W52->z)

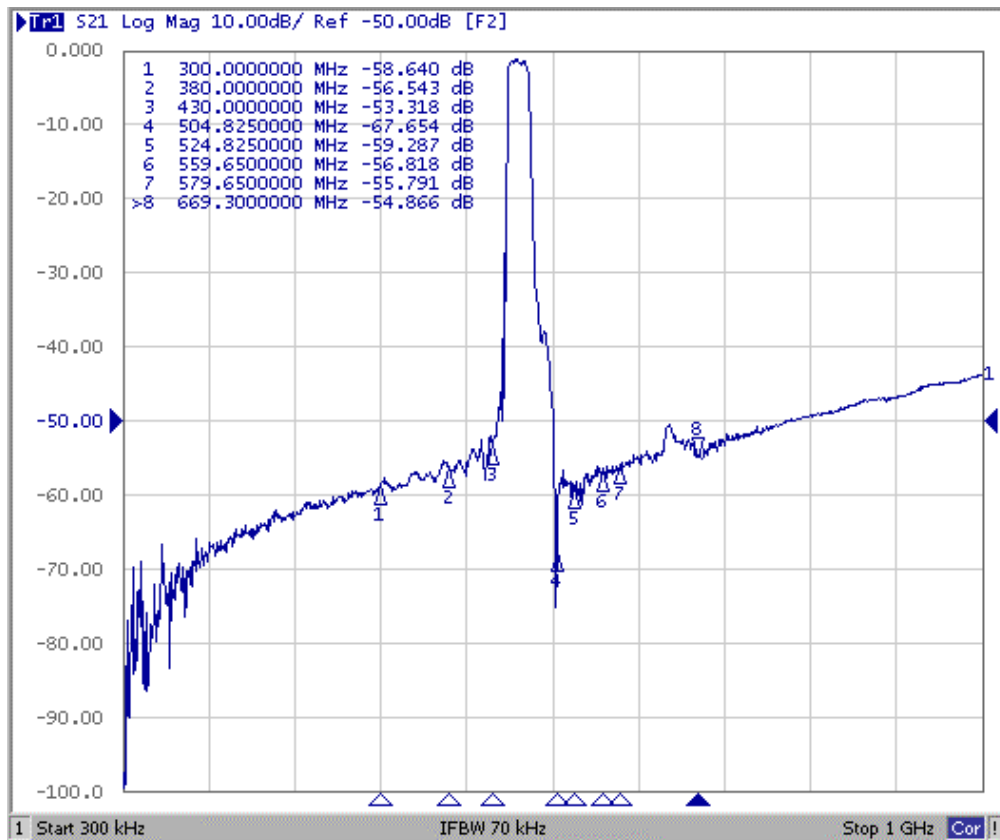
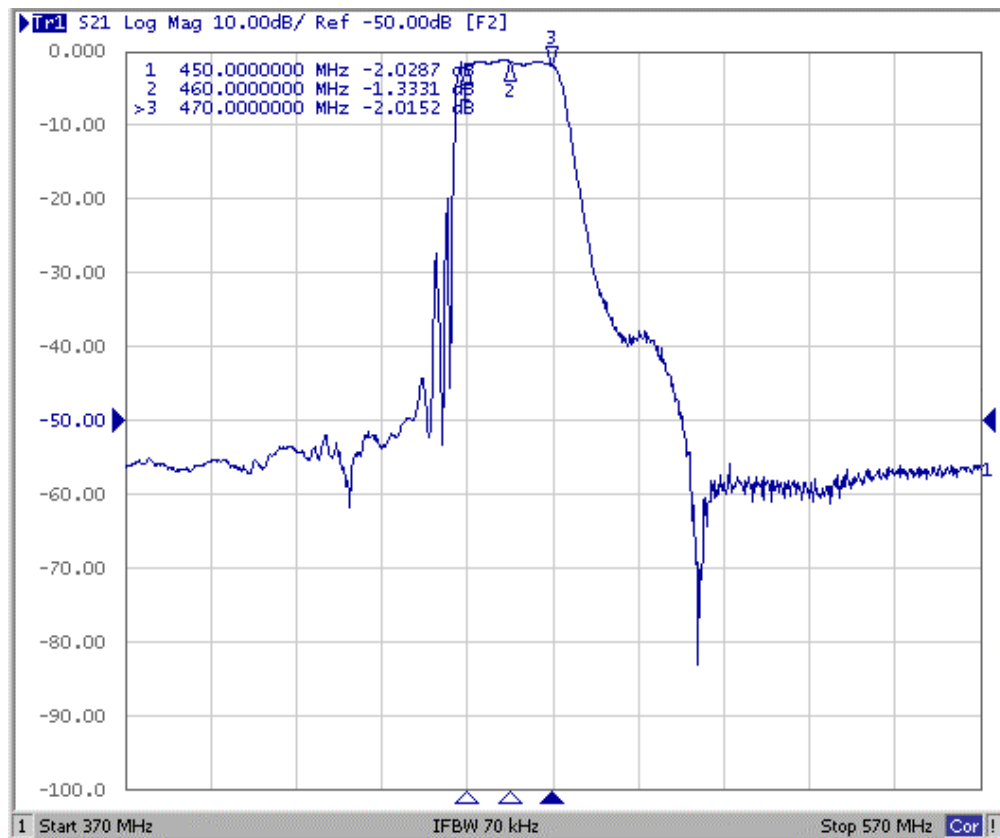
△ Product Year Code

|              |      |      |
|--------------|------|------|
| Year         | 2007 | 2008 |
|              | 2009 | 2010 |
|              | 2011 | 2012 |
| Product Code | A    | a    |

## E. PCB Footprint:



## F. Frequency Characteristics :



## 1. REEL DIMENSION

Technical drawing of a circular plate. The main view shows a large circle with a central hole. The hole is defined by a dashed circle. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right of the main view, a vertical dimension line indicates the thickness of the plate, labeled "12 TYP.". Below the main view, a detailed view of the central hole is shown. This detail view includes the following dimensions:
 

- Outer diameter:  $\phi 130 \pm 0.3 / -0.2$
- Inner diameter:  $\phi 20.2 \text{ min}$
- Plate thickness:  $2.0 \pm 0.5$

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**H. RECOMMENDED REFLOW PROFILE :**

