



# TAI-SAW TECHNOLOGY CO., LTD.

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

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## Product Specifications Approval Sheet

Product Description: SAW Filter 475 MHz SMD 3.8x3.8 mm

TST Part No.: TA1113A

Customer Part No.: \_\_\_\_\_

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ David Chang 張閔智

Approved by: \_\_\_\_\_ Francis Chen 陳文輝

Date: \_\_\_\_\_ 2009/10/16

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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## SAW Filter 475 MHz

MODEL NO.:TA1113A

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

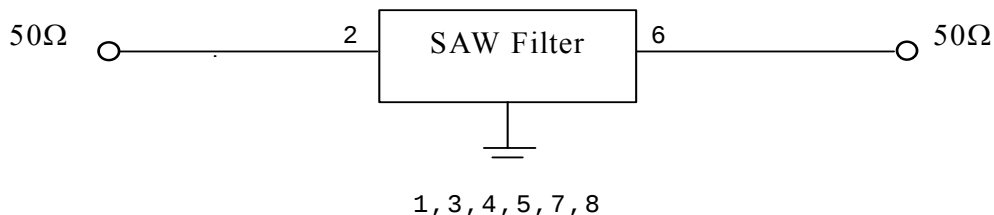
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

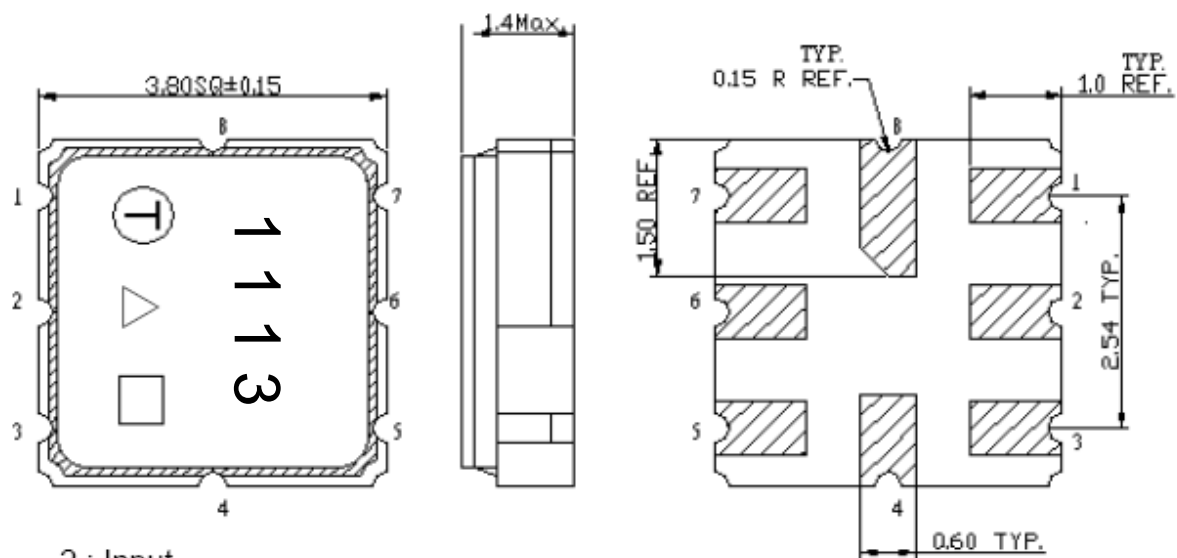
| Item                                    | Unit   | Min. | Type. | Max. |
|-----------------------------------------|--------|------|-------|------|
| Center frequency Fc                     | MHz    | -    | 475   | -    |
| Insertion loss (465~485 MHz) IL         | dB     | -    | 2.4   | 3.2  |
| Amplitude Ripple (465~485 MHz)          | dB     | -    | 0.9   | 2.4  |
| Return loss (465~485 MHz)               | dB     | 6    | 7.3   | -    |
| Attenuation (Reference level from 0 dB) |        |      |       |      |
| 0.3 ~ 300 MHz                           | dB     | 30   | 57    | -    |
| 300 ~ 380 MHz                           | dB     | 24   | 55    | -    |
| 380 ~ 445 MHz                           | dB     | 15   | 50    | -    |
| 519.825 ~ 539.825 MHz                   | dB     | 12   | 55    | -    |
| 559.65 ~ 579.65 MHz                     | dB     | 28   | 53    | -    |
| 669.3 ~ 689.3 MHz                       | dB     | 24   | 49    | -    |
| 689.3 ~ 1000 MHz                        | dB     | 26   | 42    | -    |
| Temperature Coefficient of Frequency    | ppm/°C | -    | -36   | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



**D.OUTLINE DRAWING:**

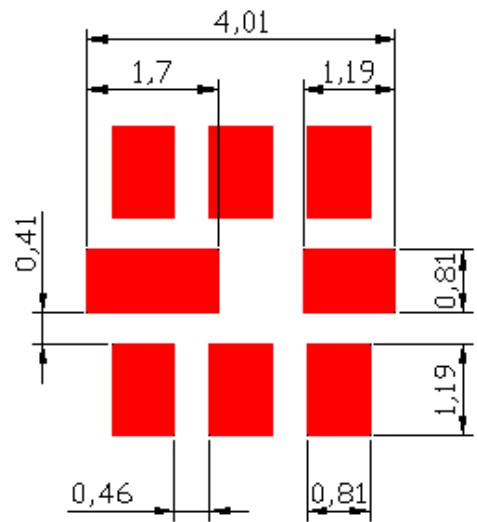


- 2 : Input  
6: Output  
1,3,4,5,7,8: Ground  
△ : Year Code  
□ : Date Code (W01->A, W02->B,...,W52->z)

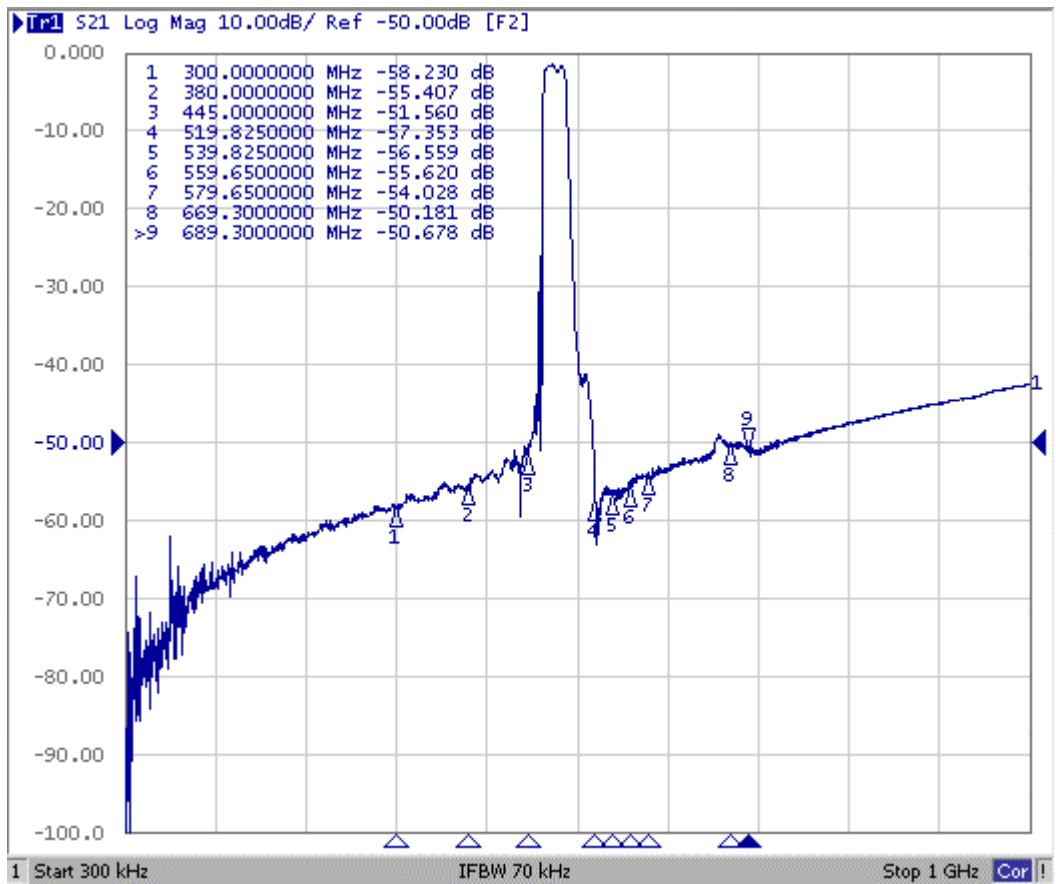
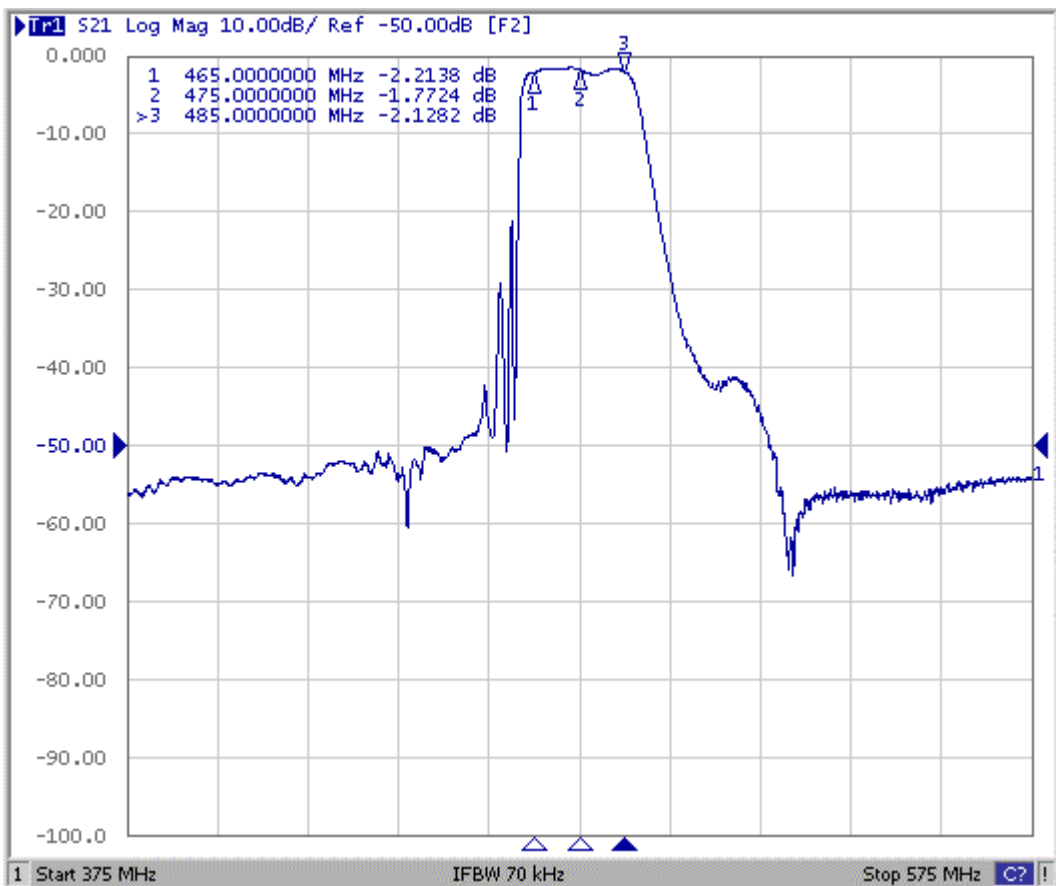
△ Product Year Code

|              |      |      |
|--------------|------|------|
| 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 hole is shown. This detail view includes the following dimensions:
 

- Inner diameter:  $\phi 13.0 \pm 0.3 / -0.2$
- Outer diameter:  $\phi 20.2 \text{ min}$
- Radial thickness:  $2.0 \pm 0.5$

## 5

**H. RECOMMENDED REFLOW PROFILE :**

