**TAI-SAW TECHNOLOGY CO., LTD.**
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

# Product Specification Approval Sheet

Product Name: SAW Filter 1575.42 MHz 2MHz BW SMD 1.4X1.1 mm

TST Parts No.: TA0918A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Bob Chau 陳秀宜 _____

Approved by:_____ Bob Chau _____

Date:_____ 03, 25, 2013 _____

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.



TST DCC
Release document

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## SAW Filter 1575.42MHz 2MHz BW SMD 1.4X1.1 mm

MODEL NO.:TA0918A REV. NO.:3

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 7.5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +95°C

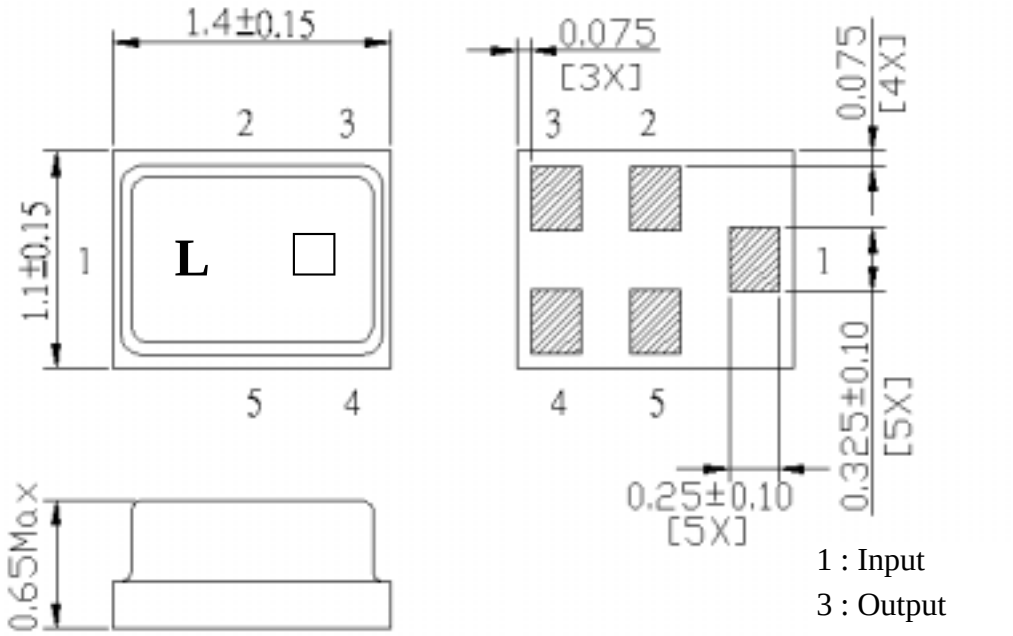
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : $Z_L$ = 50 Ω

| Item | Unit | Min. | Type. | Max. | Note |
|---|---|---|---|---|---|
| **Center Frequency** **Fc** | MHz | - | 1575.42 | - | - |
| **Insertion Loss** (1574.42~1576.42 MHz) **IL** | dB | - | 1.6 | 2 | - |
| **Amplitude ripple** (1574.42~1576.42 MHz) | dB | - | 0.1 | 0.7 | - |
| **VSWR** (1574.42~1576.42 MHz) | | - | 1.2 | 1.8 | - |
| **Attenuation** | | | | | |
| D.C~900 MHz | dB | 35 | 40 | - | - |
| 1500~1525 MHz | dB | 30 | 43 | - | - |
| 1625~1635 MHz | dB | 45 | 70 | - | - |
| 1635~3000 MHz | dB | 33 | 38 | - | - |

**C.OUTLINE DRAWING:**




1 : Input

3 : Output

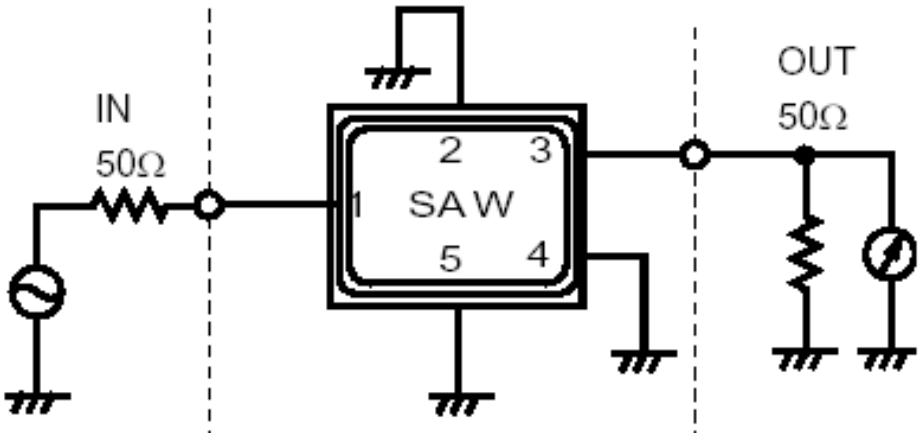
2,4,5 : Ground

Unit : mm

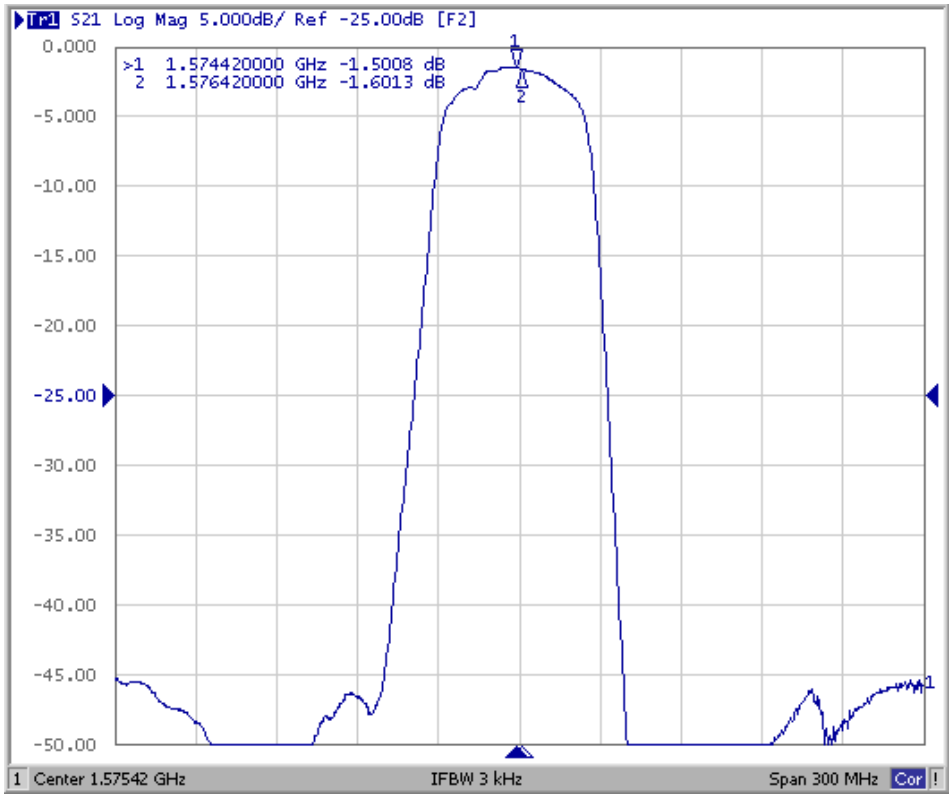
**□ : Year/Month Code (Follow the table)**

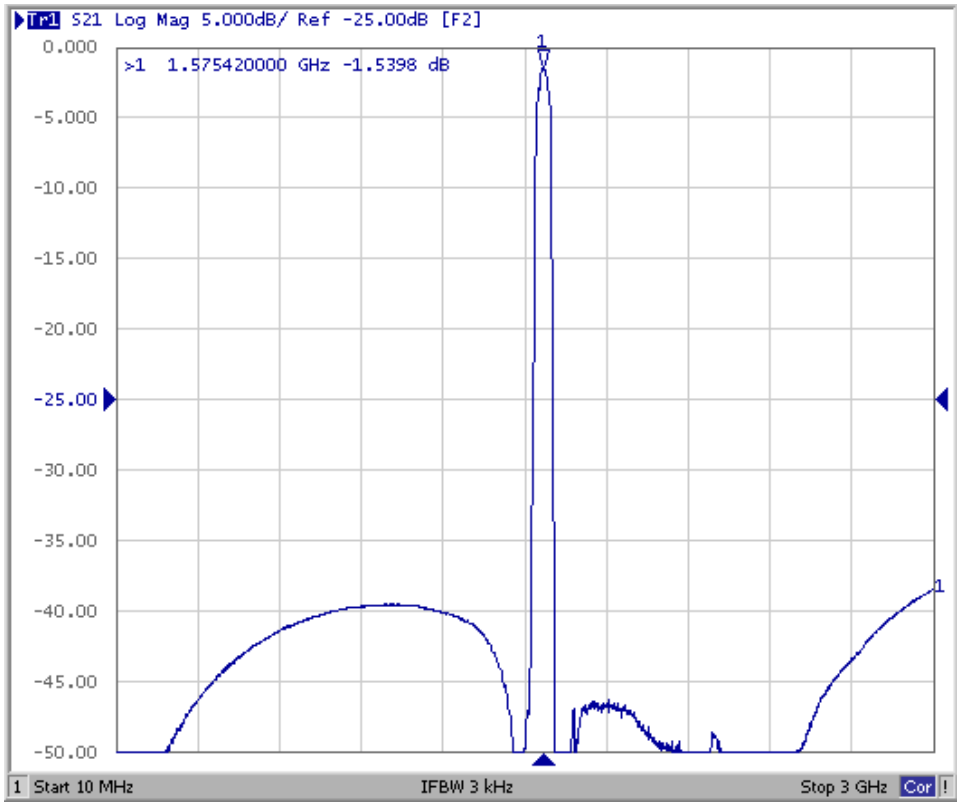
| YEAR/Month | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **2013** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **J** | **K** | **L** | **M** |
| **2014** | **N** | **P** | **Q** | **R** | **S** | **T** | **U** | **V** | **W** | **X** | **Y** | **Z** |
| **2015** | **a** | **b** | **c** | **d** | **e** | **f** | **g** | **h** | **j** | **k** | **l** | **m** |
| **2016** | **n** | **p** | **q** | **r** | **s** | **t** | **u** | **v** | **w** | **x** | **y** | **z** |
| **2017** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **J** | **K** | **L** | **M** |
| **2018** | **N** | **P** | **Q** | **R** | **S** | **T** | **U** | **V** | **W** | **X** | **Y** | **Z** |
| **2019** | **a** | **b** | **c** | **d** | **e** | **f** | **g** | **h** | **j** | **k** | **l** | **m** |
| **2020** | **n** | **p** | **q** | **r** | **s** | **t** | **u** | **v** | **w** | **x** | **y** | **z** |

**D. MEASUREMENT CIRCUIT:**



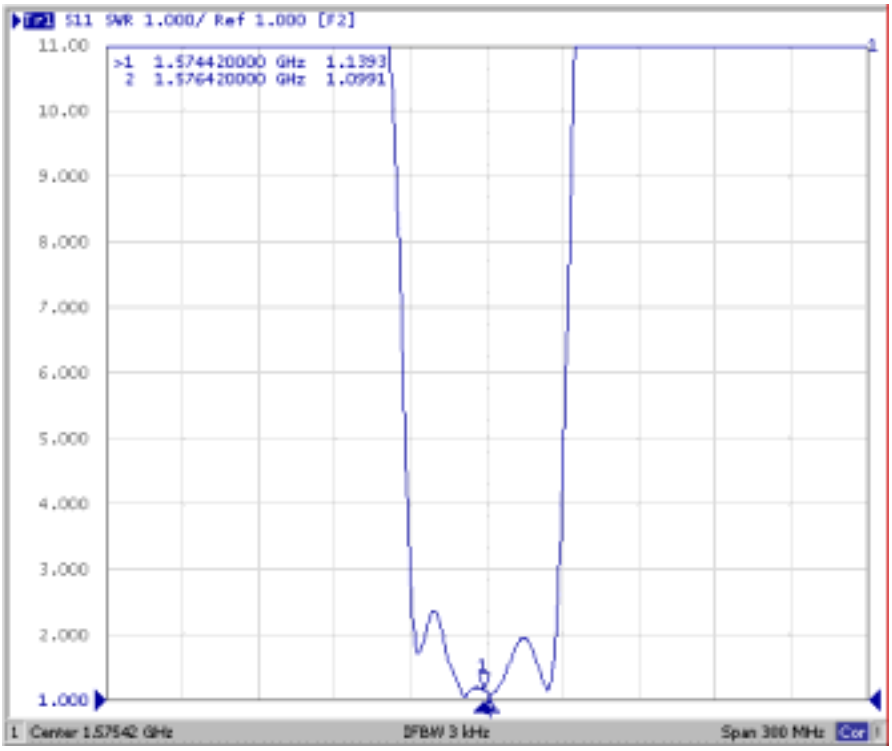
## E. Frequency Characteristics :



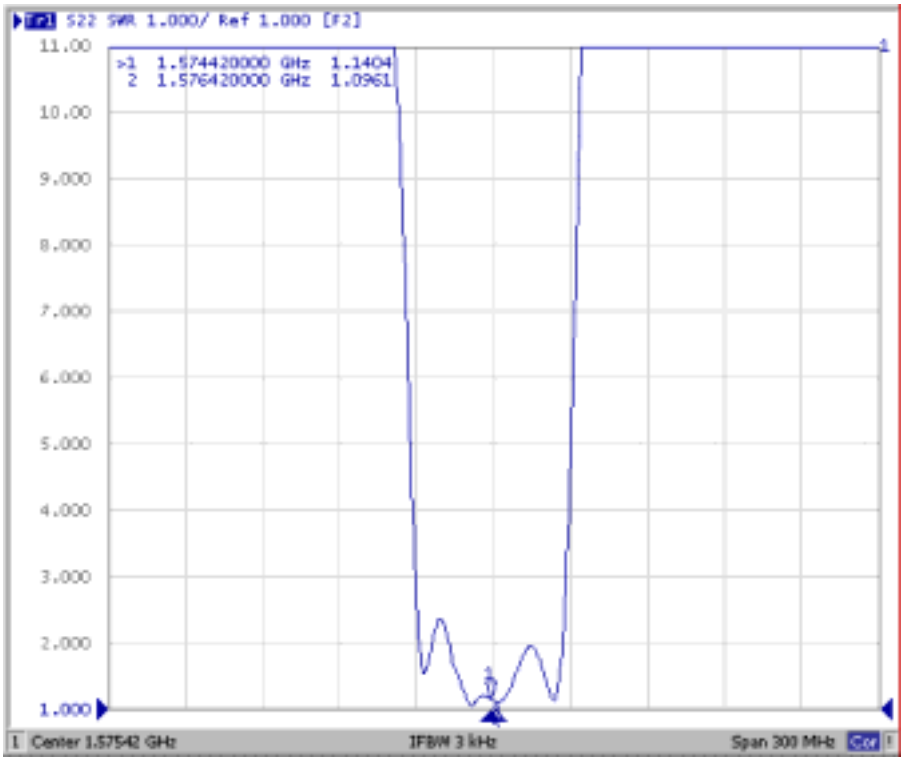



**Reflection Functions :**

S11



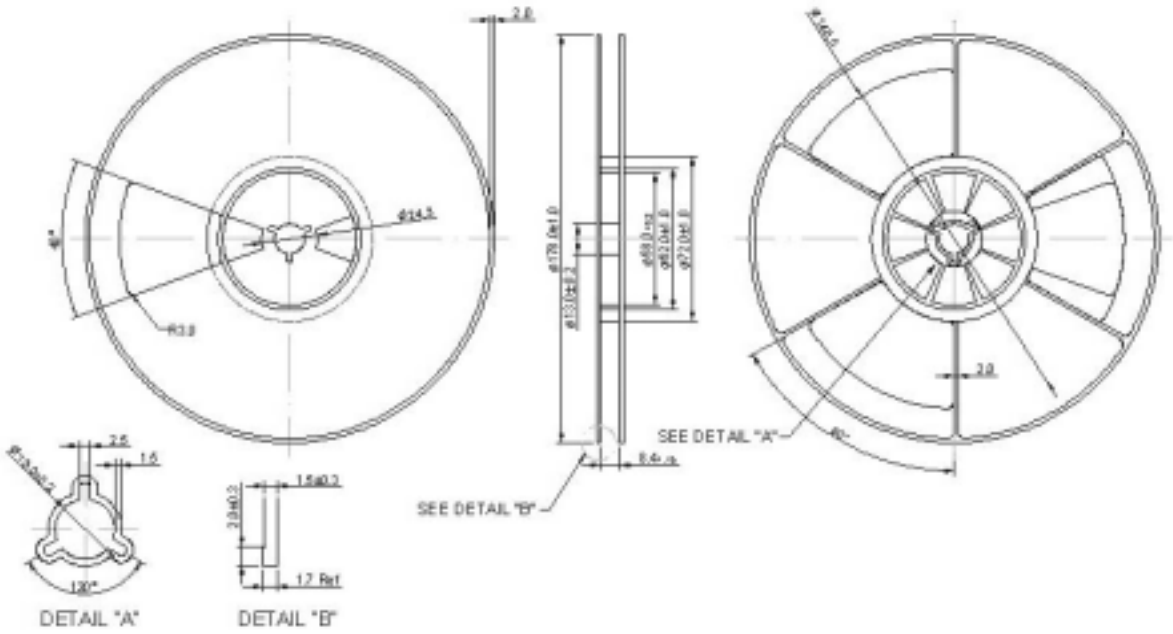

S22



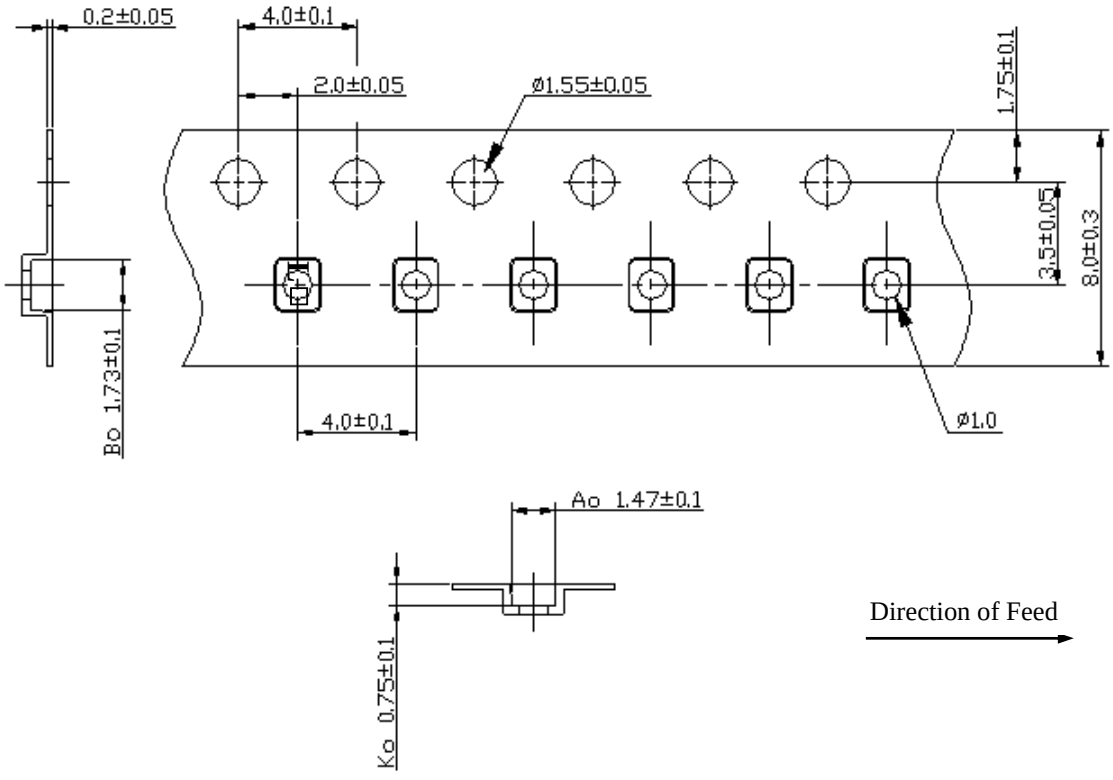
## F. PACKING:

1. REEL DIMENSION

**(Reel Count : 7”=3000 )**




2.TAPE DIMENSION



**F. <u>RECOMMENDED REFLOW PROFILE</u> :**

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 245~260°C peak (min. 10sec).
4. Time : 2 times.

