



# 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 1234.4 MHz SMD 3.8x3.8 mm (BW=45 MHz)

TST Part No.: TA1925A

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

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ David Chang 

Approved by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 2016/04/26

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 1234.4 MHz

MODEL NO.:TA1925A

REV. NO.:1

### A. MAXIMUM RATING:

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

RoHS Compliant  
Lead free  
Lead-free soldering

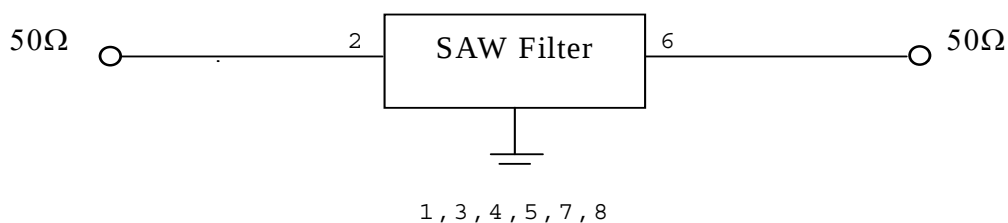
Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

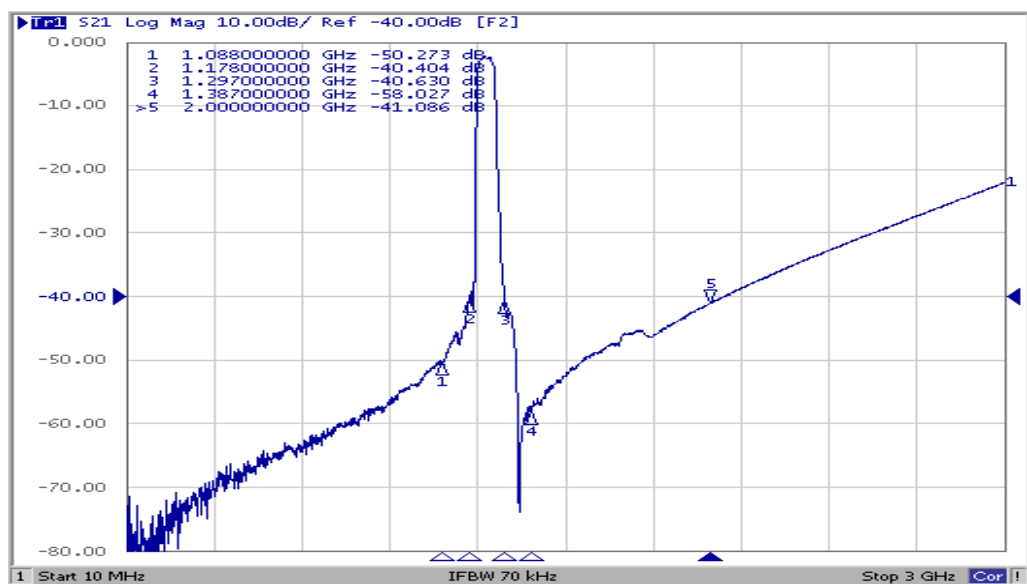
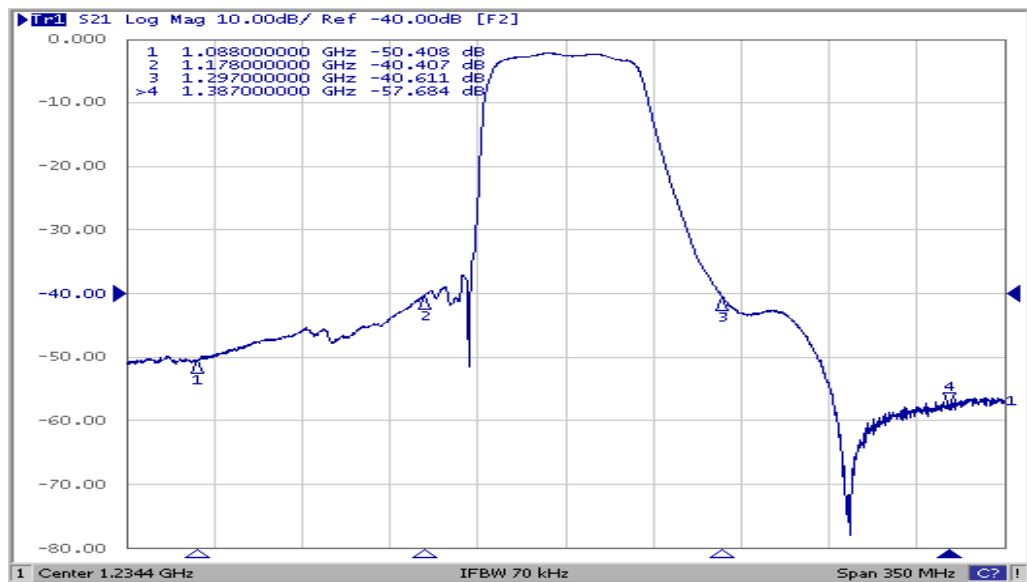
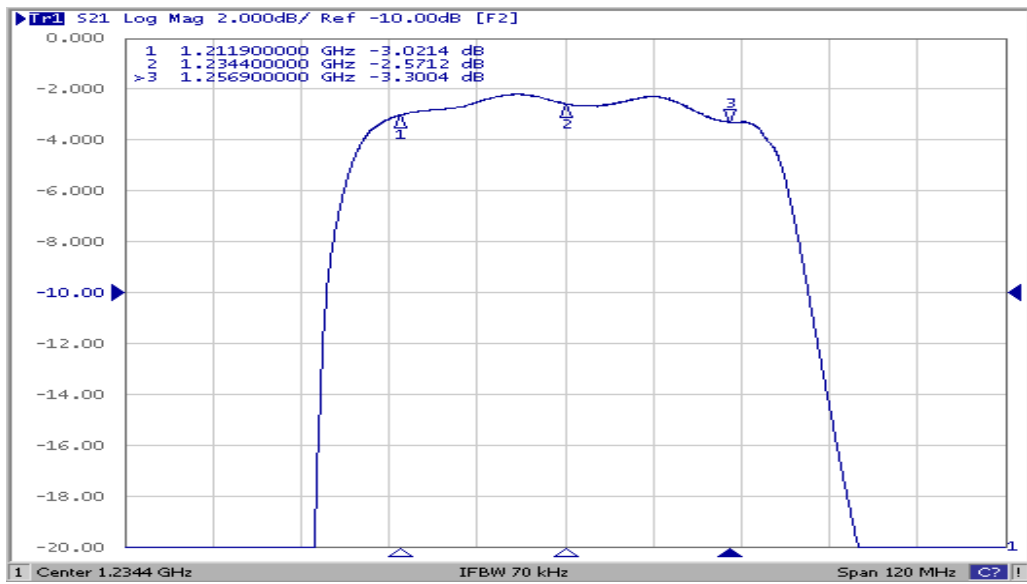
| Item                                         | Unit  | Min. | Typ.   | Max. |
|----------------------------------------------|-------|------|--------|------|
| Center frequency <b>Fc</b>                   | MHz   | -    | 1234.4 | -    |
| Insertion loss (1211.9~1256.9 MHz) <b>IL</b> | dB    | -    | 3.3    | 4.8  |
| Amplitude Ripple (1211.9~1256.9 MHz)         | dB    | -    | 1.1    | 2.8  |
| Group delay ripple (1211.9~1256.9 MHz)       | ns    | -    | 27     | 120  |
| Attenuation (Reference level from 0 dB)      |       |      |        |      |
| 10 ~ 1088 MHz                                | dB    | 40   | 50     | -    |
| 1088 ~ 1178 MHz                              | dB    | 25   | 40     | -    |
| 1297 ~ 1387 MHz                              | dB    | 25   | 40     | -    |
| 1387 ~ 2000 MHz                              | dB    | 35   | 41     | -    |
| 2000 ~ 3000 MHz                              | dB    | 17   | 22     | -    |
| Temperature coefficient of frequency         | ppm/k | -    | -36    | -    |

### C. MEASUREMENT CIRCUIT:

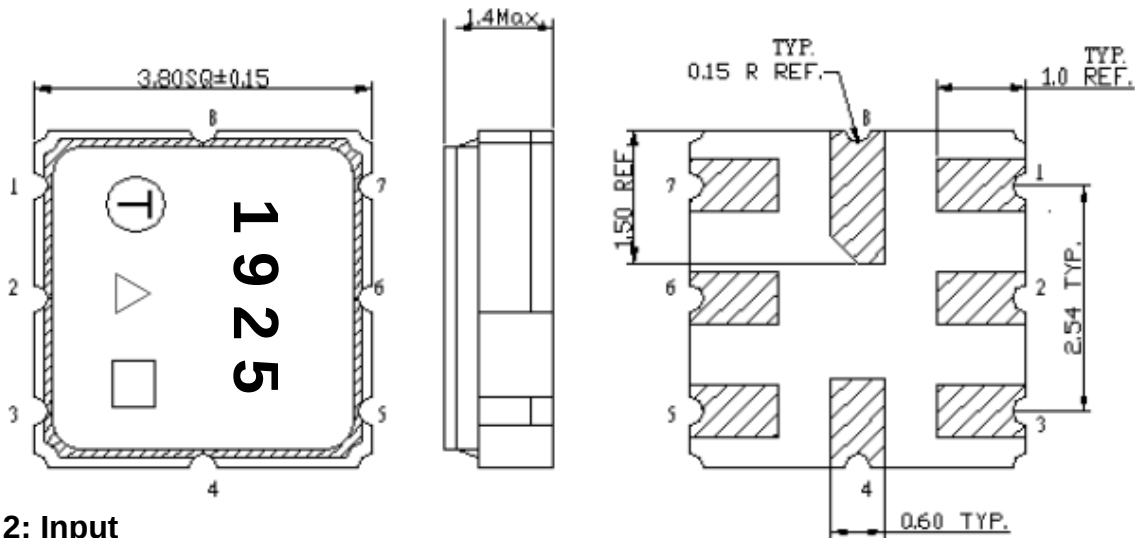
HP Network analyzer



## D. Frequency Characteristics:



## E. OUTLINE DRAWING:



2: Input

6: Output

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

△ : Year Code

□ : Date Code

Unit: mm

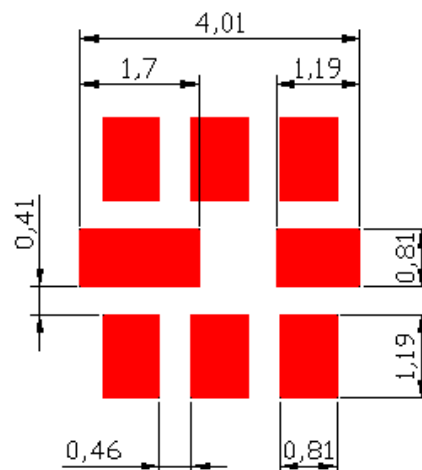
△ Product Year Code

|              |      |      |
|--------------|------|------|
| Year         | 2011 | 2012 |
|              | 2013 | 2014 |
|              | 2015 | 2016 |
|              | 2017 | 2018 |
|              |      |      |
| Product Code | A    | a    |

## Date Code Table:

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A    | B    | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    |
| WK14 | WK15 | WK16 | WK17 | WK18 | WK19 | WK20 | WK21 | WK22 | WK23 | WK24 | WK25 | WK26 |
| N    | O    | P    | Q    | R    | S    | T    | U    | V    | W    | X    | Y    | Z    |
| WK27 | WK28 | WK29 | WK30 | WK31 | WK32 | WK33 | WK34 | WK35 | WK36 | WK37 | WK38 | WK39 |
| a    | b    | c    | d    | e    | f    | g    | h    | i    | j    | k    | l    | m    |
| WK40 | WK41 | WK42 | WK43 | WK44 | WK45 | WK46 | WK47 | WK48 | WK49 | WK50 | WK51 | WK52 |
| n    | o    | p    | q    | r    | s    | t    | u    | v    | w    | x    | y    | z    |

## F. PCB Footprint:



## 1. REEL DIMENSION

Technical drawing of a circular plate. The main view shows a circle with a central hole. The hole is labeled with a dimension of  $\phi 100$  REF. and a note "See DETAIL 'A'". The plate has a thickness of 12 TYP. A detailed view of the hole is shown at the bottom right, indicating a hole diameter of  $\phi 100 \pm 0.5$  and a hole depth of  $20 \pm 0.5$ . The detailed view also shows a hole diameter of  $\phi 130 \pm 0.5$  and a hole depth of  $20 \pm 0.5$ .

Section A-A

Direction of Feed

#### H. RECOMMENDED REFLOW PROFILE:

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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

