



# 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 782 MHz SMD 3.0x3.0 mm (BW=10 MHz)

TST Part No.: TA1605A

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

|                             |
|-----------------------------|
| Customer signature required |
| Company: _____              |
| Division: _____             |
| Approved by : _____         |
| Date: _____                 |

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

Approved by: \_\_\_\_\_ Andy Yu *Andy Yu*

Date: \_\_\_\_\_ 2019/04/24

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 782 MHz

MODEL NO.:TA1605A

REV. NO.:3.0

### A. MAXIMUM RATING:

1. Input Power Level: +25 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1

RoHS Compliant  
Lead free  
Lead-free soldering

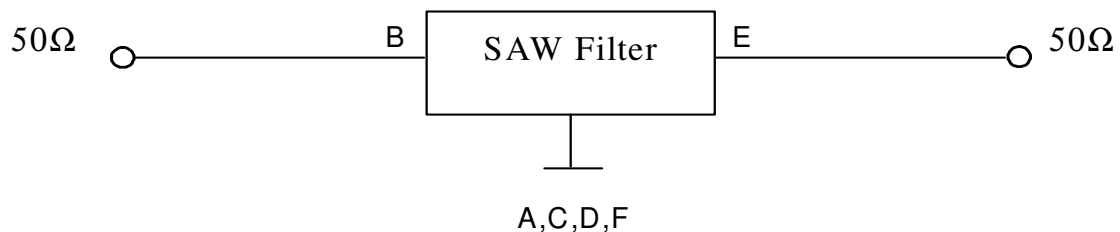
Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

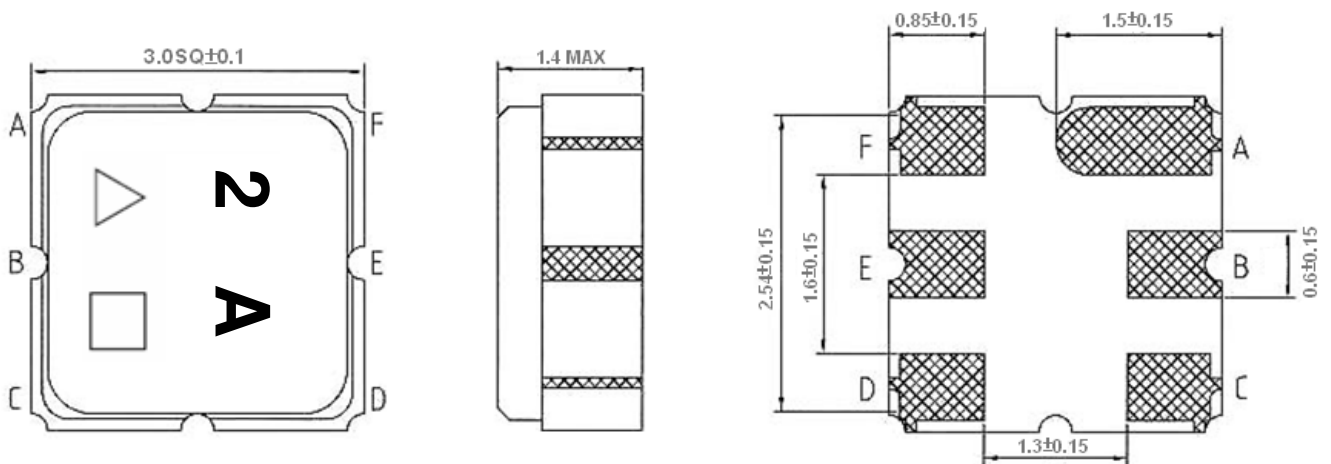
| Item   | Unit   | Min. | Typ. | Max. |
|--|--------|------|------|------|
| <b>Center Frequency</b> Fc                     | MHz    | -    | 782  | -    |
| <b>Insertion loss</b> (777~787 MHz) IL         | dB     | -    | 2.2  | 3    |
| <b>Bandwidth</b>                               | MHz    | 10   | 25   | -    |
| <b>Amplitude Ripple</b> (777 ~ 787 MHz)        | dB     | -    | 0.35 | 1    |
| <b>Attenuation</b> (Reference level from 0 dB) |        |      |      |      |
| 300 ~ 700 MHz                                  | dB     | 28   | 61   | -    |
| 728 ~ 757 MHz                                  | dB     | 10   | 48   | -    |
| 880 ~ 1050 MHz                                 | dB     | 28   | 61   | -    |
| <b>Temperature Coefficient of Frequency</b>    | Ppm/°C | -    | -36  | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



### D. OUTLINE DRAWING:



**B: Input**

**E: Output**

**A, C, D, F: Ground**

**Unit: mm**

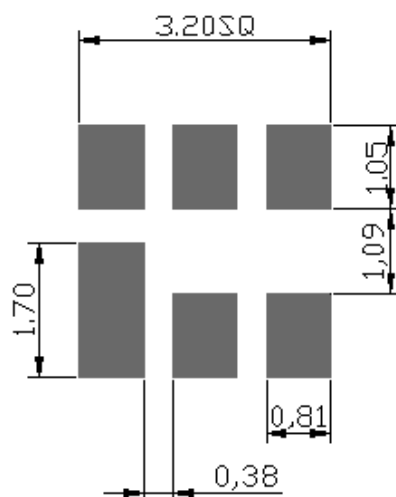
**△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)**

**□ : Date Code**

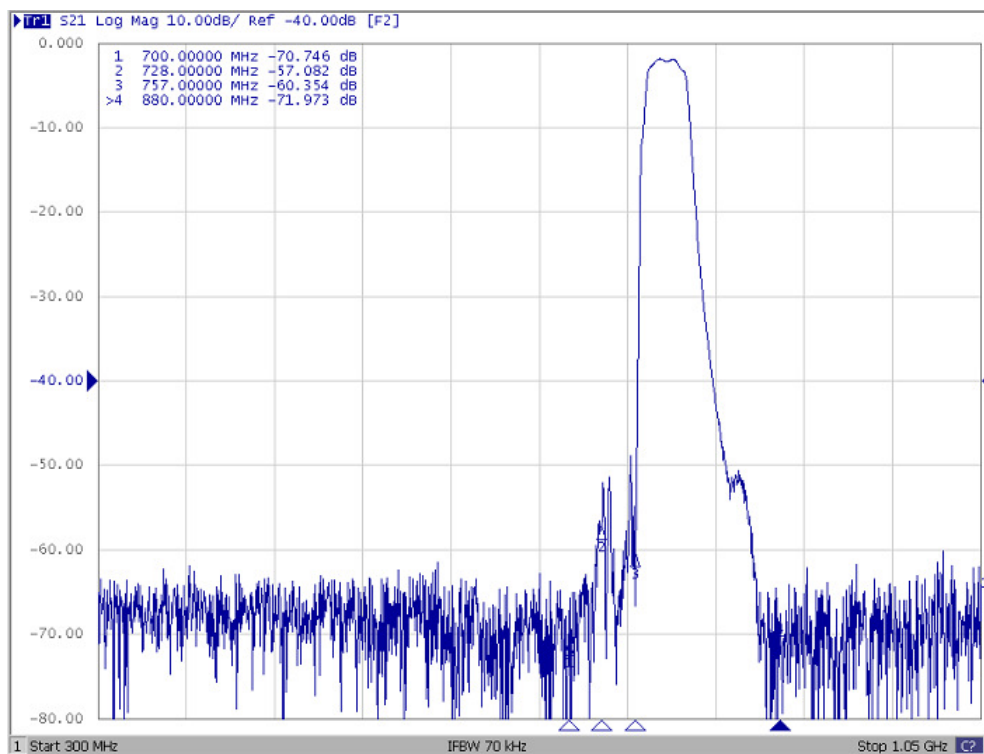
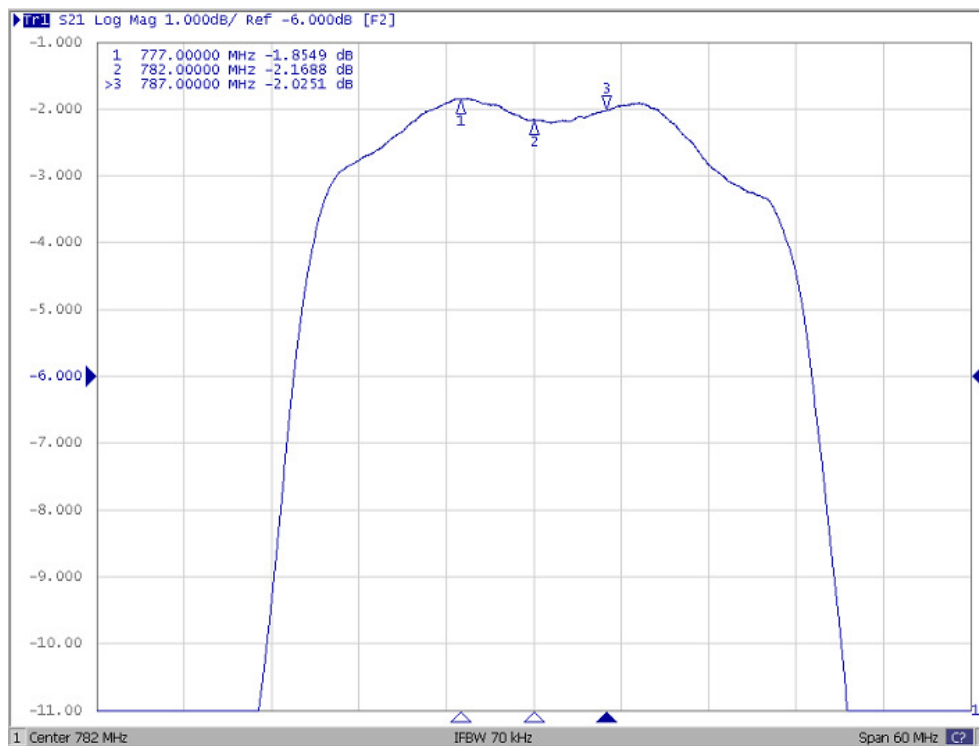
### Date Code Table:

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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    |

### E. PCB Footprint:



## F. Frequency Characteristics:





## H. RECOMMENDED REFLOW PROFILE:

