



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

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Product Specifications Approval Sheet

Product Description: SAW Filter 869 MHz SMD 3.0×3.0 mm (BW=8 MHz)

TST Part No.: TA2532A

Customer Part No.: _____

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

Checked by: _____ David Chang *David*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/04/02

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 869 MHz

MODEL NO.: TA2532A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 27 dB_m
2. DC voltage: 4 V
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

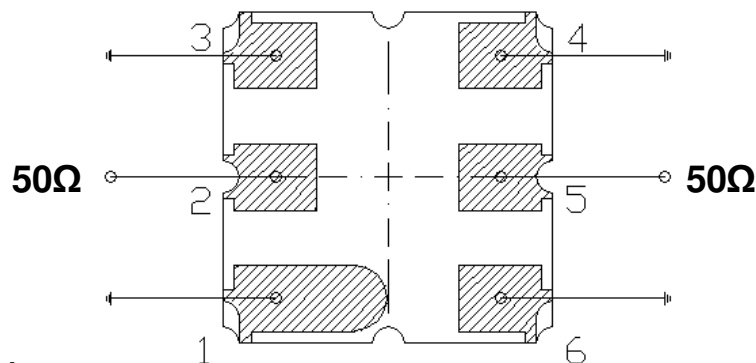
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

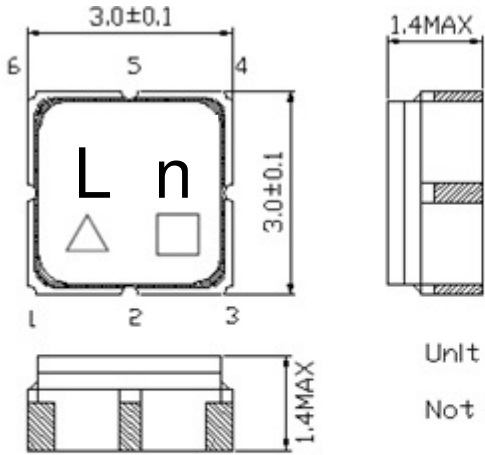
| Item | Unit | Min. | Typ. | Max. |
|---|--------------|------|------|------|
| Center frequency F_c | MHz | - | 869 | - |
| Insertion Loss (865~873 MHz) | IL dB | - | 1.9 | 3.5 |
| Amplitude Ripple (865~873 MHz) | dB | - | 0.4 | 2.4 |
| Return Loss (865~873 MHz) | dB | 9 | 13 | - |
| Attenuation (Reference level from 0 dB) | | | | |
| 100 ~ 845 MHz | dB | 30 | 40 | - |
| 900 ~ 2000 MHz | dB | 30 | 42 | - |
| Temperature Coefficient of Frequency | ppm/°C | - | -36 | - |

C. MEASUREMENT CIRCUIT:



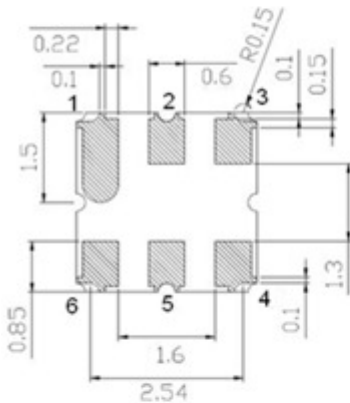
- (2): Unbalance Port**
(5): Unbalance Port
Others: Ground

D. OUTLINE DRAWING:



Unit : mm

Not Specified Tolerance : +/-0.15 mm



| Pin No. | Symbol | Function |
|---------|--------|----------|
| 1 | GND | Ground |
| 2 | IN | Input |
| 3 | GND | Ground |
| 4 | GND | Ground |
| 5 | OUT | Output |
| 6 | GND | Ground |

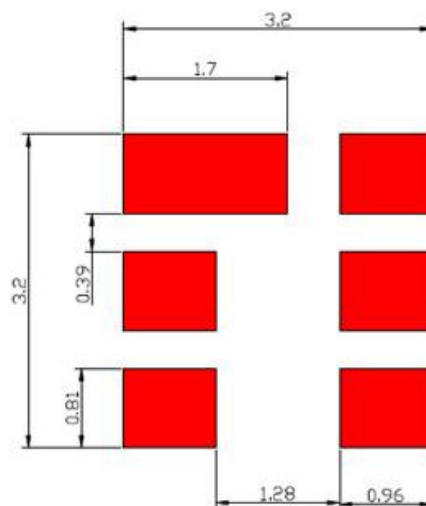
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : 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 |

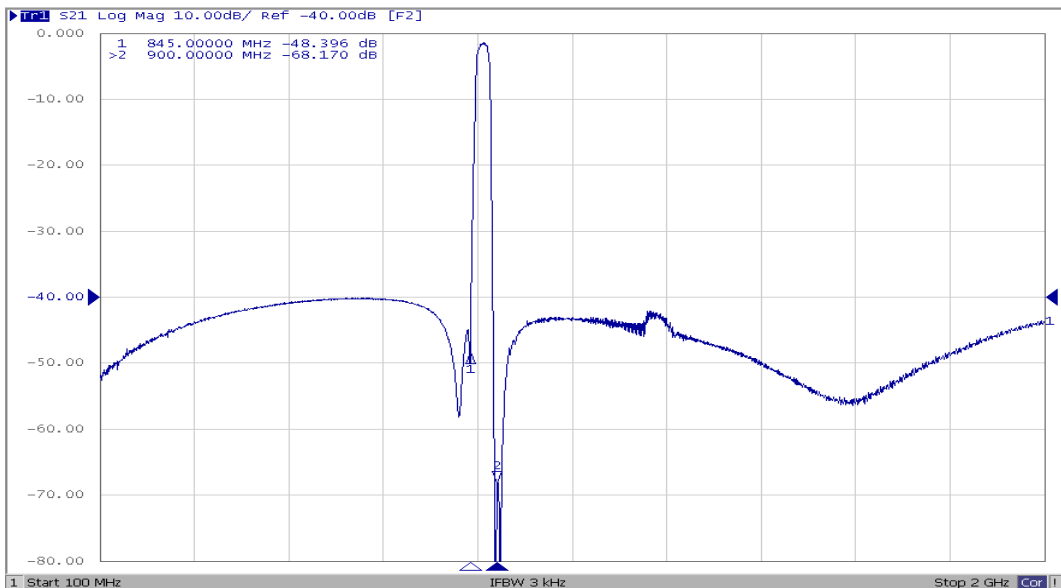
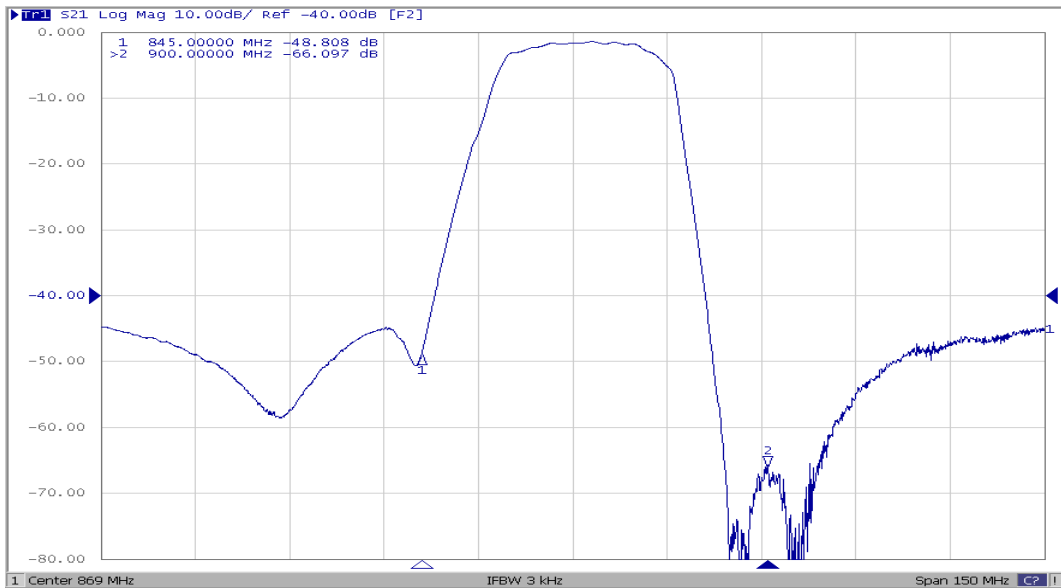
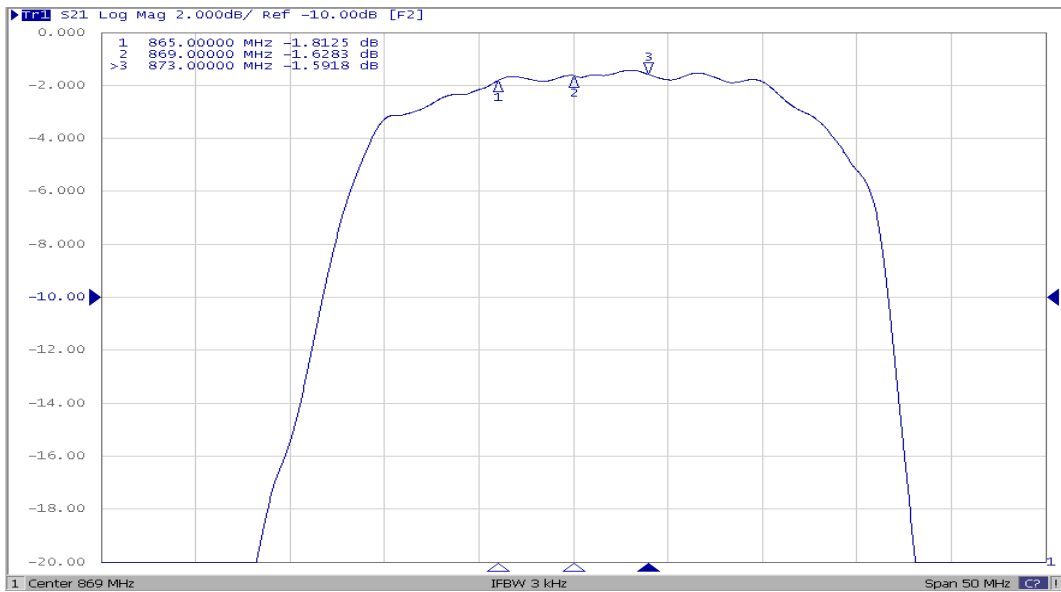
E. PCB Footprint:



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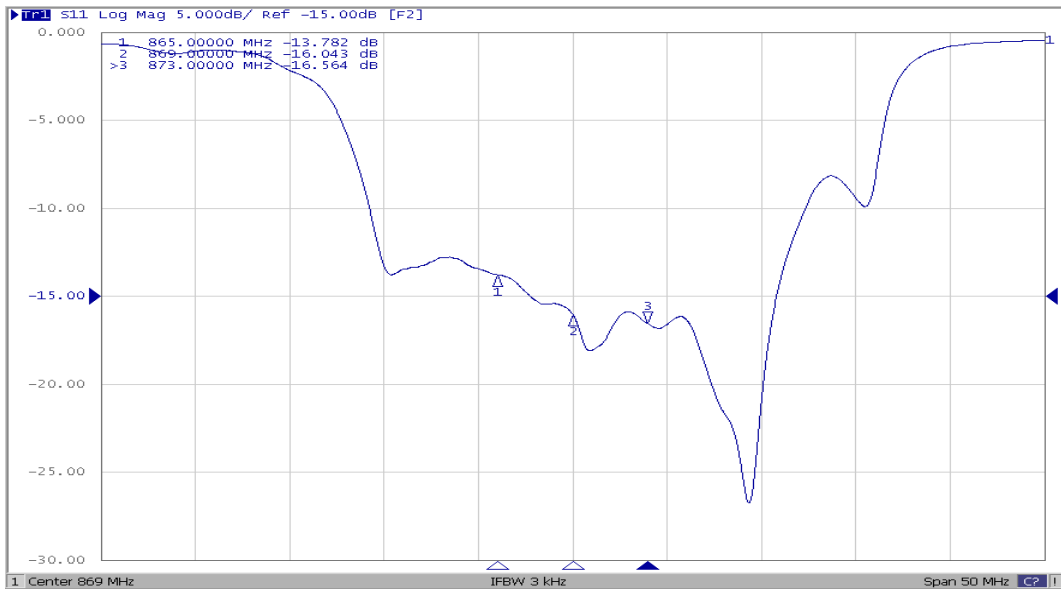
TST DCC
Release document

F. Frequency Characteristics:

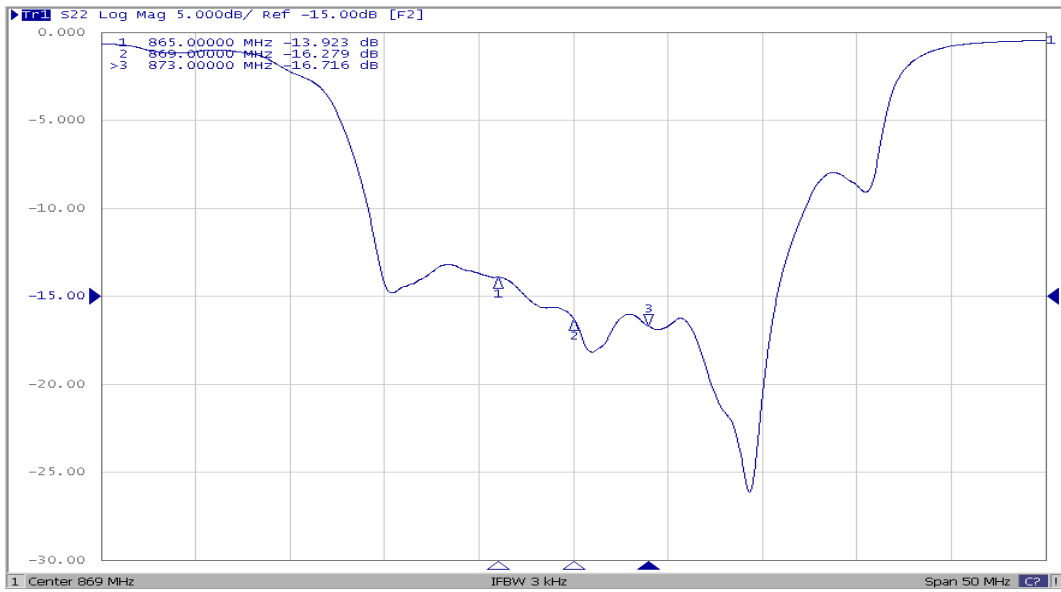


Reflection Functions:

S11



S22



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.

