



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet


Product Name: SAW Filter 2492 MHz (BW 25MHz) SMD 3.0X3.0 mm

TST Parts No.: TA1982A

Customer Parts No.: _____

| |
|---------------------|
| Company: _____ |
| Division: _____ |
| Approved by : _____ |
| Date: _____ |

Checked by: _____ Sam Lin 

Approval by: _____ Bob Chau 

Date: _____ 2016/03/30

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 2492MHz

MODEL NO.:TA1982A

REV. NO.:1.0

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)

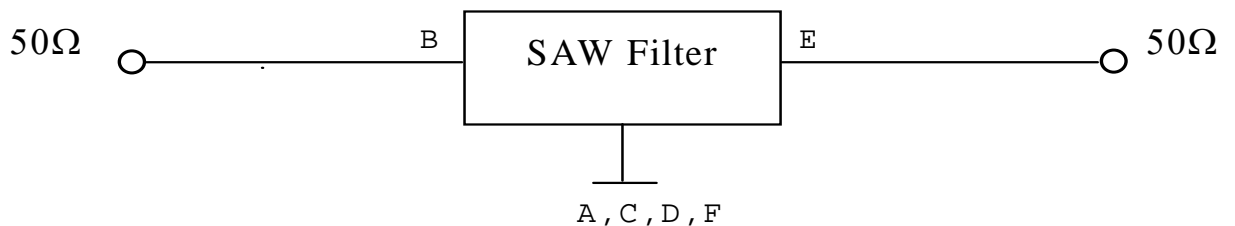
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$
 Terminating load impedance(single) : $Z_L = 50 \Omega$

| Item | Unit | Min. | Typ. | Max | |
|--|--------|------|------|------|-----|
| Center frequency | Fc | MHz | - | 2492 | - |
| Insertion Loss (2479.5~2504.5 MHz) | IL | dB | - | 1.65 | 2.8 |
| Amplitude ripple (2479.5~2504.5 MHz) | | dB | - | 0.2 | 1.6 |
| VSWR (2479.5~2504.5 MHz) | | - | - | 1.6 | 2.4 |
| Attenuation (Reference level from 0 dB) | | | | | |
| DC ~ 2390 MHz | dB | 33 | 40 | - | |
| 2575 ~ 3000 MHz | dB | 43 | 50 | - | |
| Temperature coefficient of frequency | ppm/°C | - | -36 | - | |

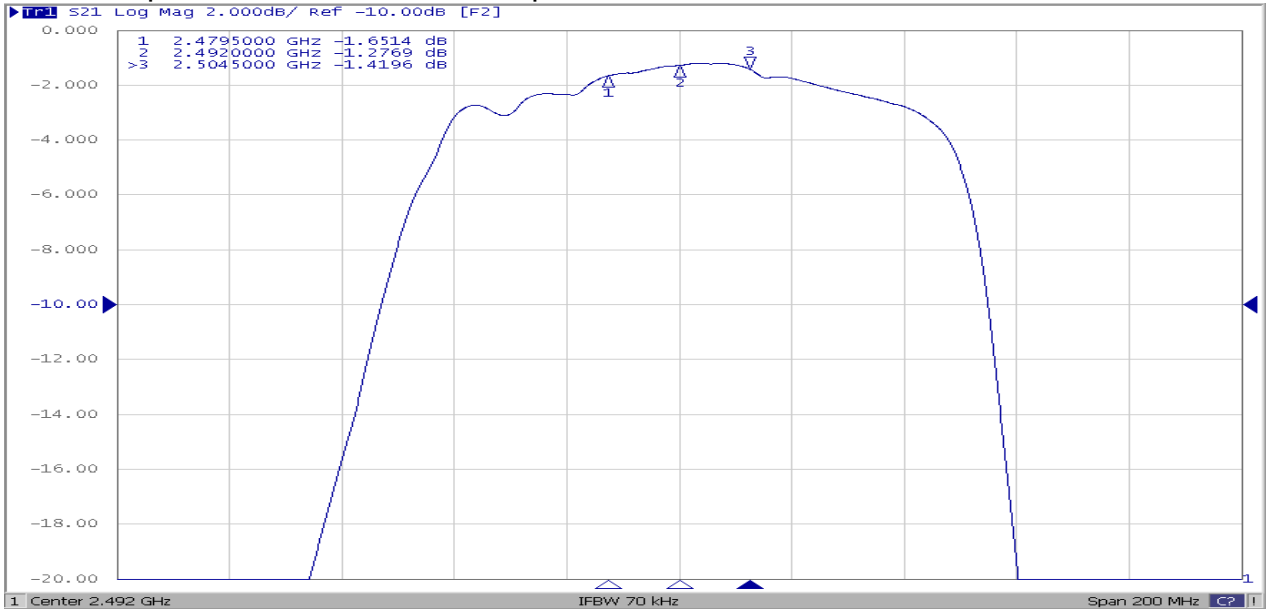
C.. TEST CIRCUIT:

HP Network analyzer

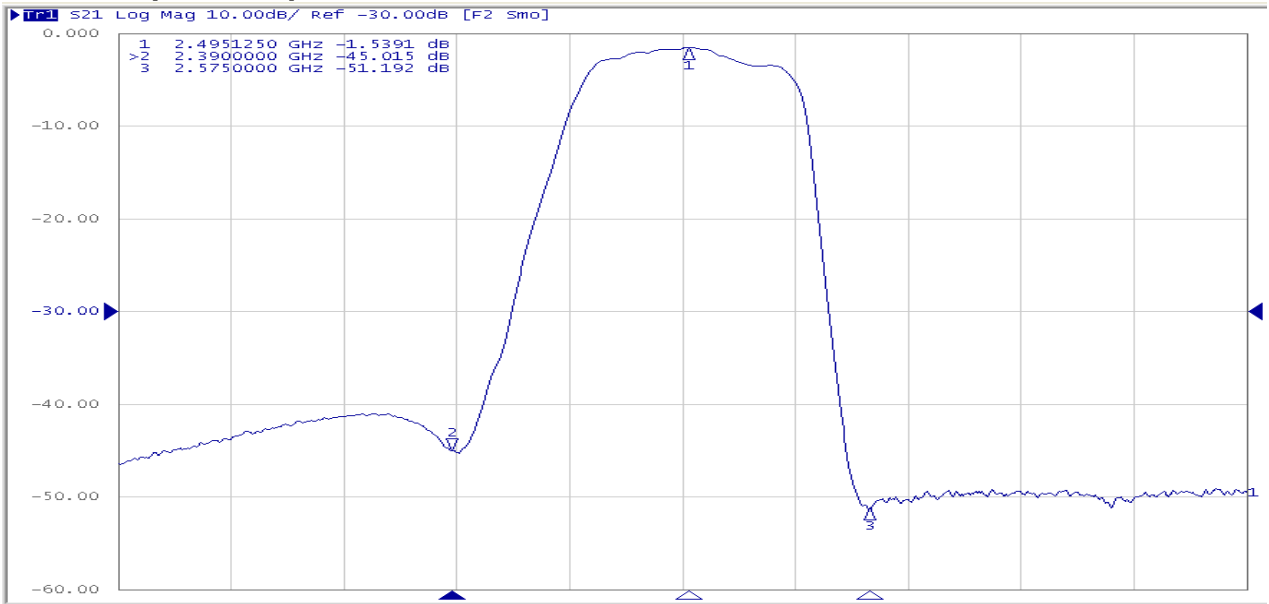


D. Frequency Characteristics:

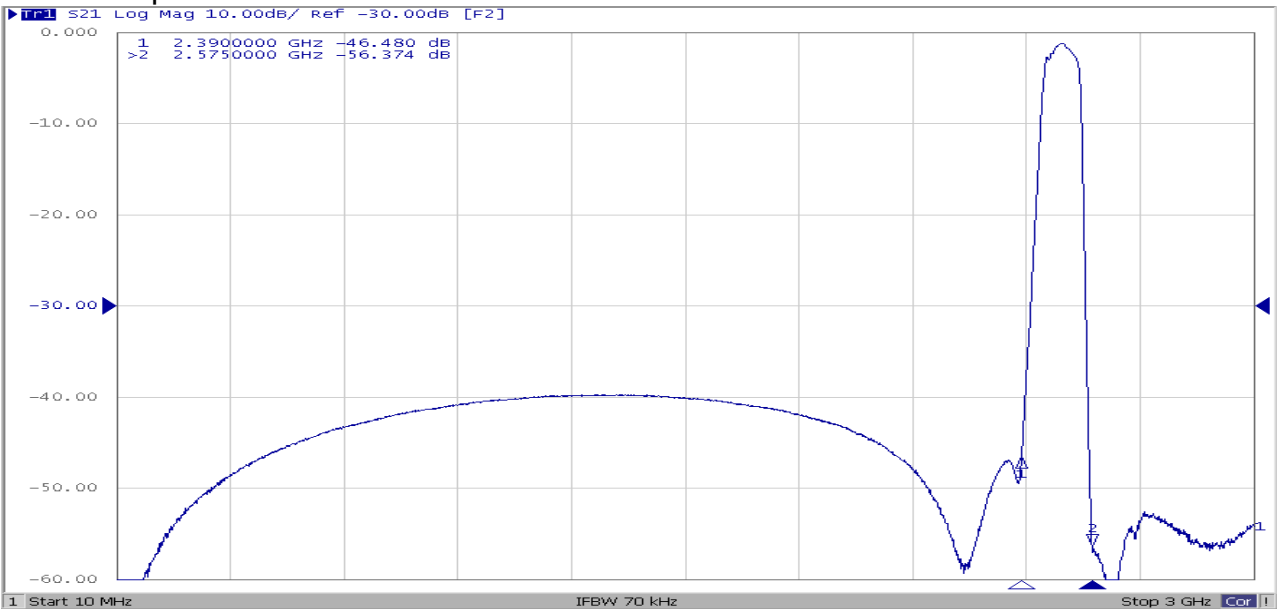
S21 response: Center 2492MHz, Span 200MHz



S21 responds: Span 500MHz

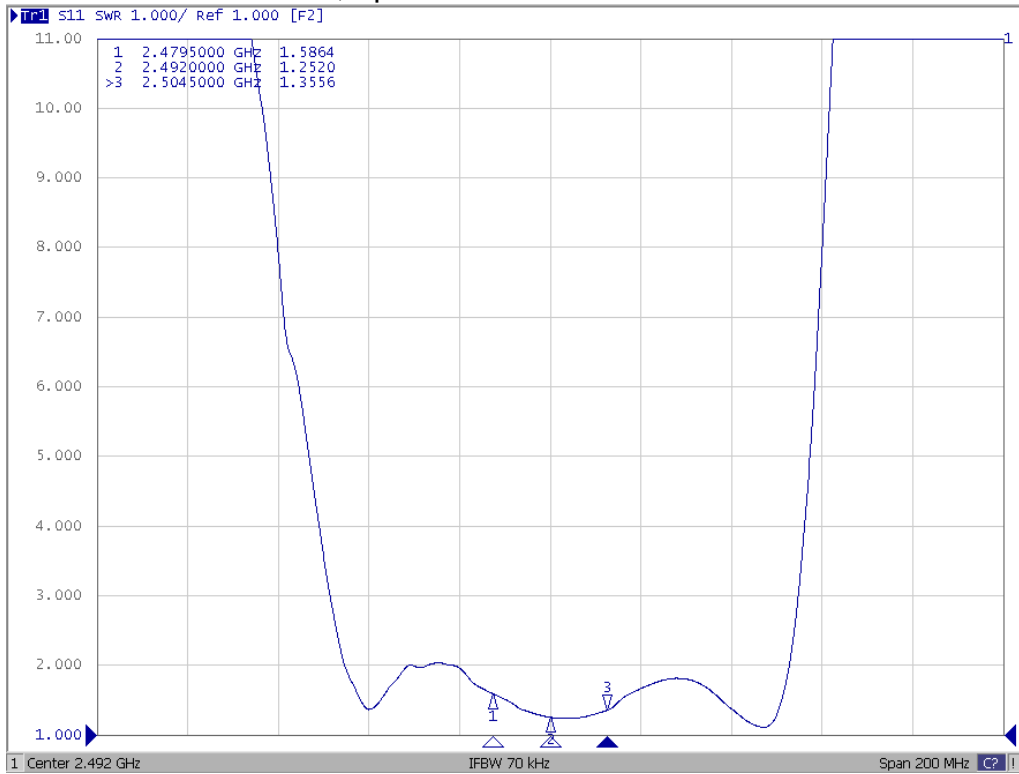


S21 response: 10MHz ~ 3000MHz

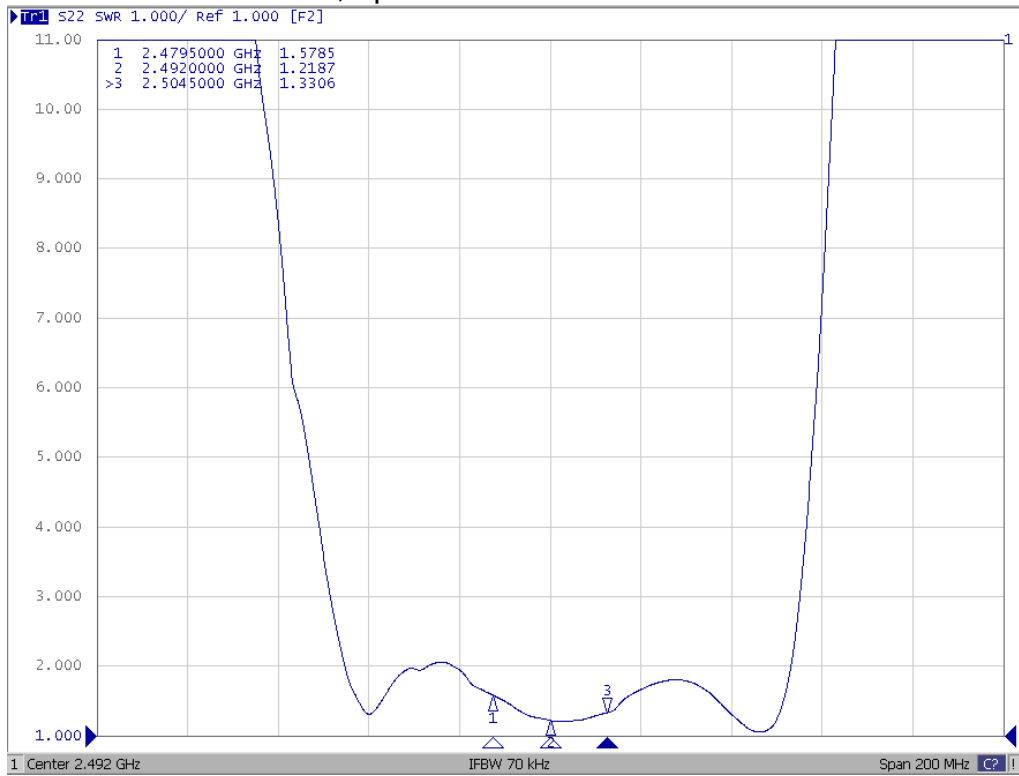


Reflection Functions

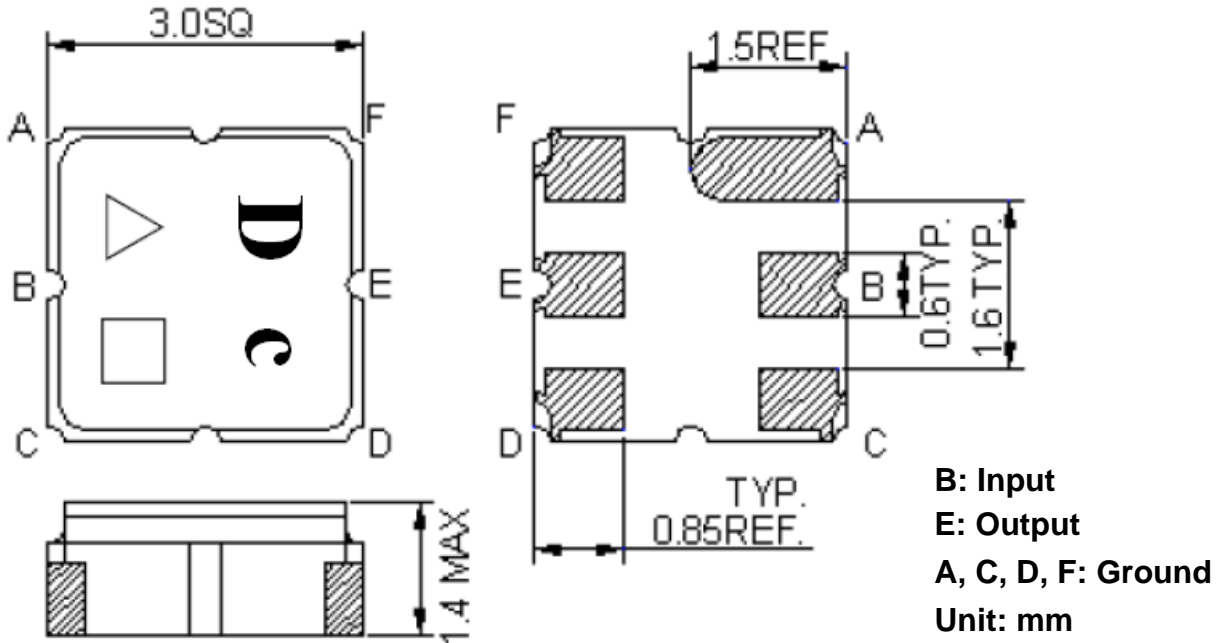
S11 VSWR: Center 2492MHz, Span 200MHz



S11 VSWR: Center 2492MHz, Span 200MHz



E.OUTLINE DRAWING:

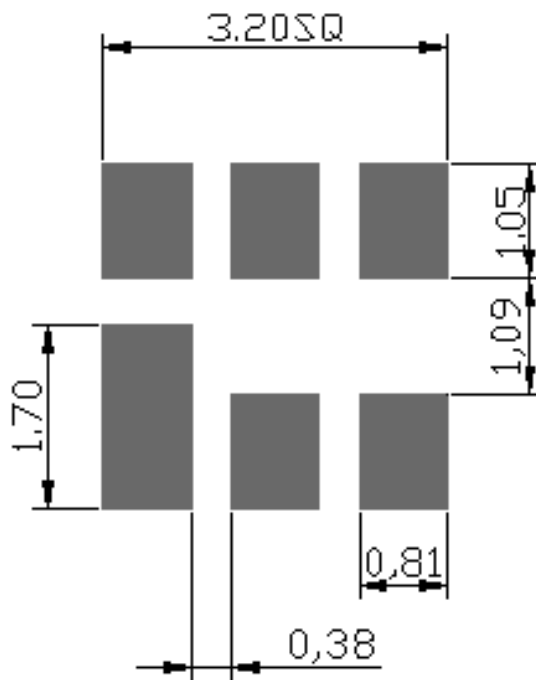


△ : Year Code (2009->9, 2010->0, ..., 2018->8)

□ : Date Code (Follow the table from planner each year)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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:



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.

