**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 Specifications Approval Sheet

Product Description: SAW Filter 2450 MHz SMD 1.4x1.1 mm (BW=100 MHz)

TST Part No.: TA1629C (AEC-Q200 compliant)

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by:_____ Hayley Chou

Approved by:_____ Andy Yu

Date:_____ 2017/03/16

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 2450 MHz SMD 1.4x1.1 mm (BW=100 MHz)

MODEL NO.:TA1629C REV. NO.: 1.0

### A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40 ℃ to +85 ℃
4. Storage Temperature: -40 ℃ to +85 ℃

RoHS Compliant
Lead free
Lead-free soldering

**E**lectrostatic **S**ensitive **D**evice (**ESD**)

### B. ELECTRICAL CHARACTERISTICS:

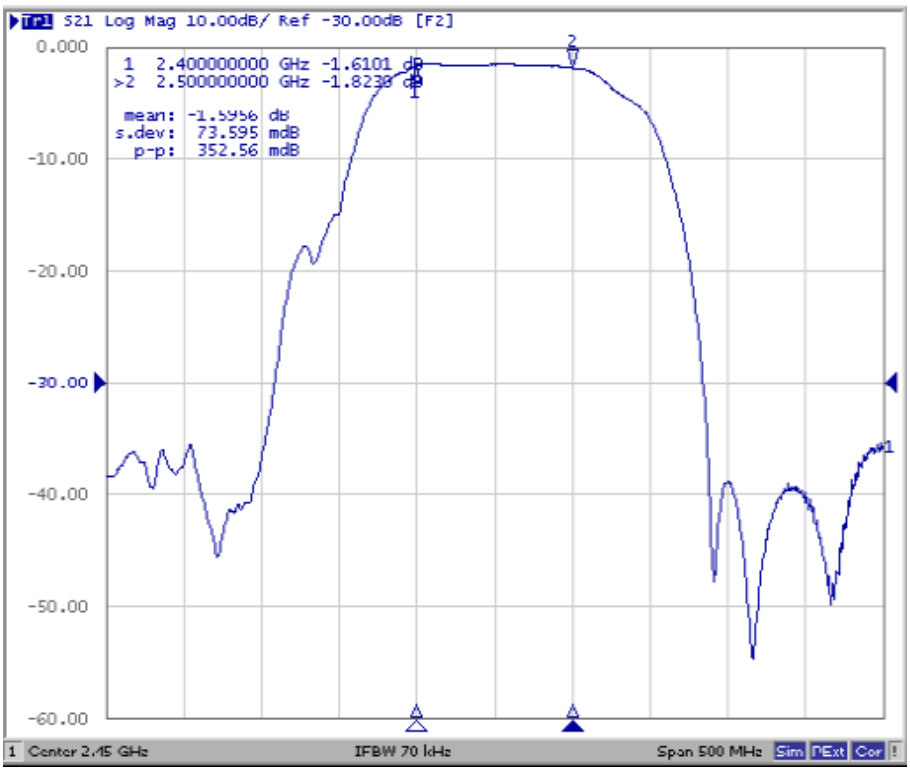
Terminating source impedance: Zs = 50 Ω (Single-ended)

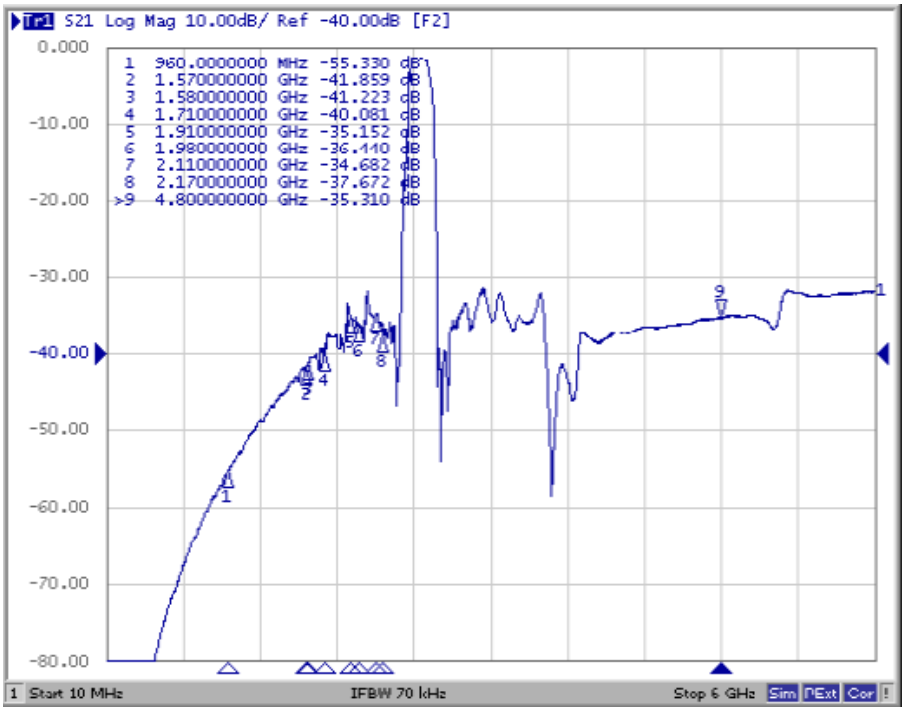
Terminating load impedance: $Z_L$ = 50 Ω (Single-ended)

| Parameters Description | | Unit | Min. | Typ. | Max. |
|---|---|---|---|---|---|
| Center Frequency | | MHz | - | 2450 | - |
| Insertion Loss | 2400~2500 MHz | dB | - | 1.6 | 2.5 |
| Amplitude Ripple | 2400~2500 MHz | $dB_{p-p}$ | - | 0.4 | 1.5 |
| VSWR | 2400~2500 MHz | - | - | 1.4 | 2.3 |
| **Attenuation (Reference level from 0dB):** | | | | | |
| **D.C~960 MHz** | | dB | 35 | 55 | - |
| **960~1570 MHz** | | dB | 35 | 42 | - |
| **1570~1580 MHz** | | dB | 35 | 41 | - |
| **1580~1710 MHz** | | dB | 35 | 40 | - |
| **1710~1910 MHz** | | dB | 30 | 35 | - |
| **1910~1980 MHz** | | dB | 30 | 36 | - |
| **2110~2170 MHz** | | dB | 30 | 35 | - |
| **2640~3000 MHz** | | dB | 25 | 31 | - |
| **3000~4800 MHz** | | dB | 25 | 32 | - |
| **4800~5000 MHz** | | dB | 20 | 35 | - |
| **5000~6000 MHz** | | dB | 20 | 32 | - |

**Notes:** (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

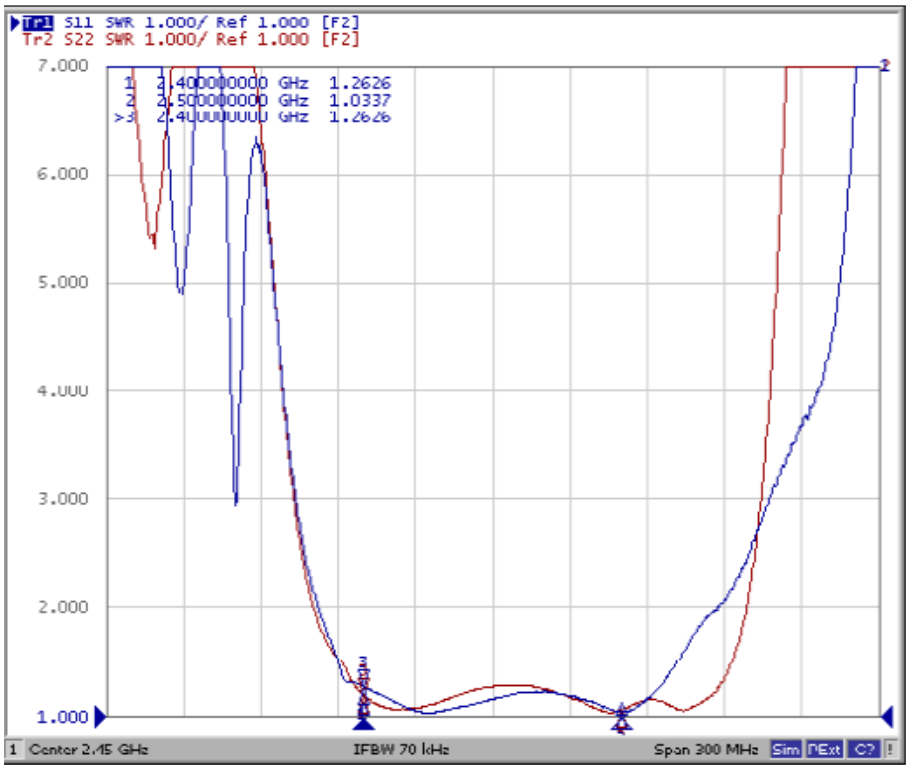
## C. FREQUENCY CHARACTERISTICS:



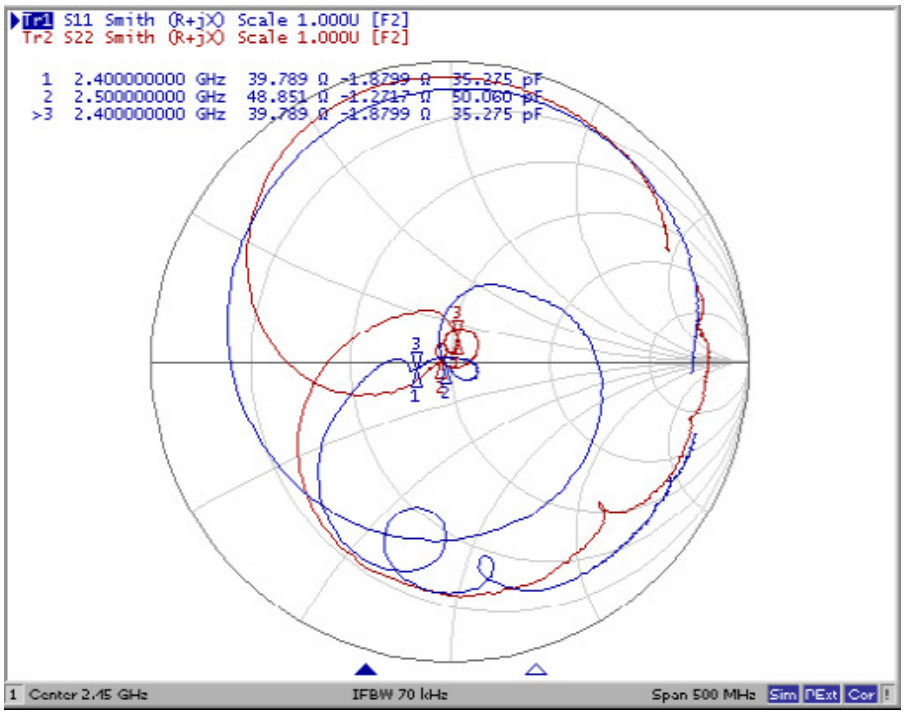



## Reflection Functions:

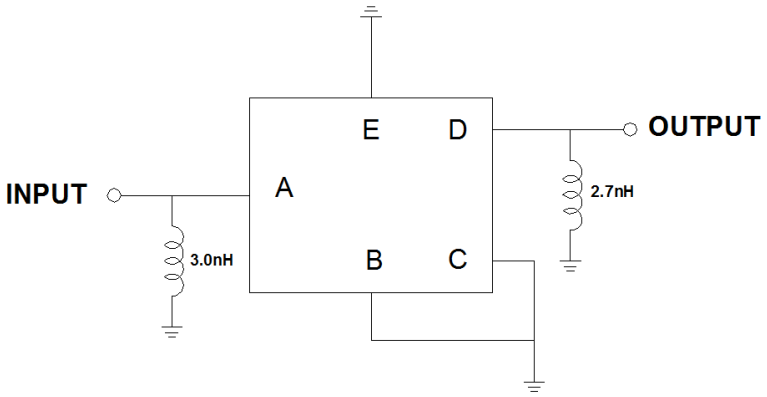
### VSWR




### Smith Chart

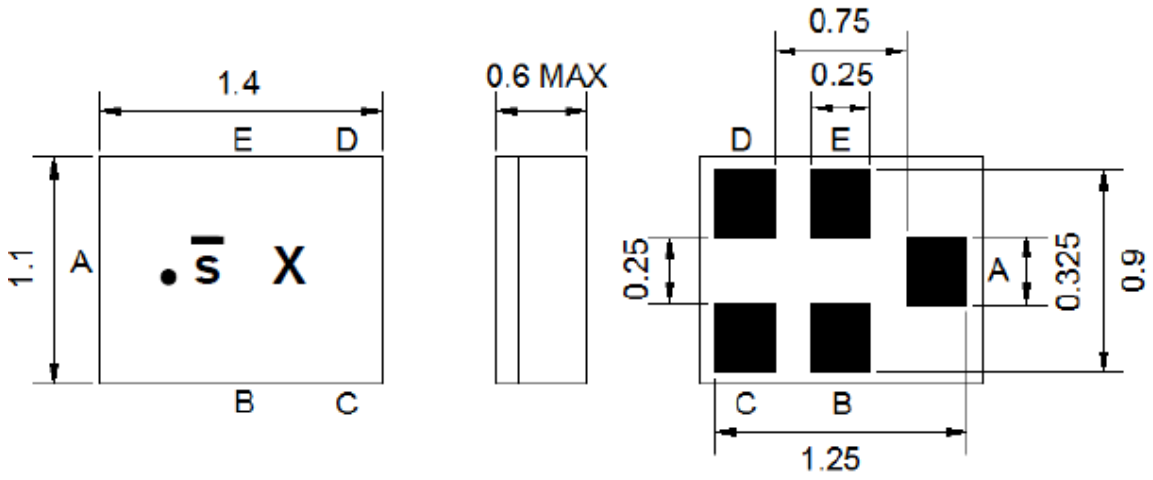


## D. MEASUREMENT CIRCUIT:




Source & Load Impedance: 50 Ω

## E. OUTLINE DRAWING:



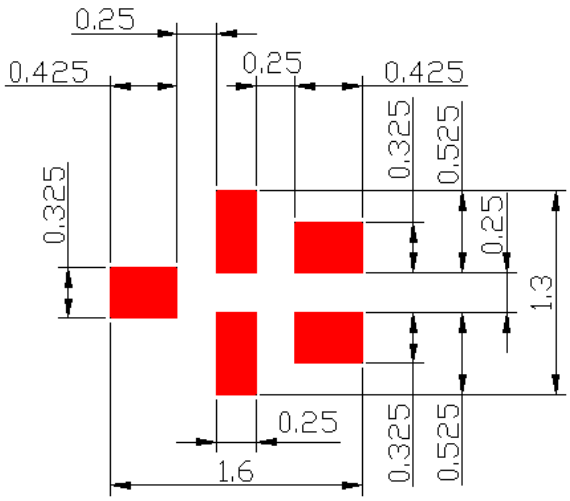

| Marking Descriptions | |
|---|---|
| $\overline{s}$ | Series Number |
| X | Date Code(Year+Month) |

| Pin Description | |
|---|---|
| B, C, E | Ground |
| A | Input |
| D | Output |

**Date Code:**

| | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

## F. FOOTPRINT:

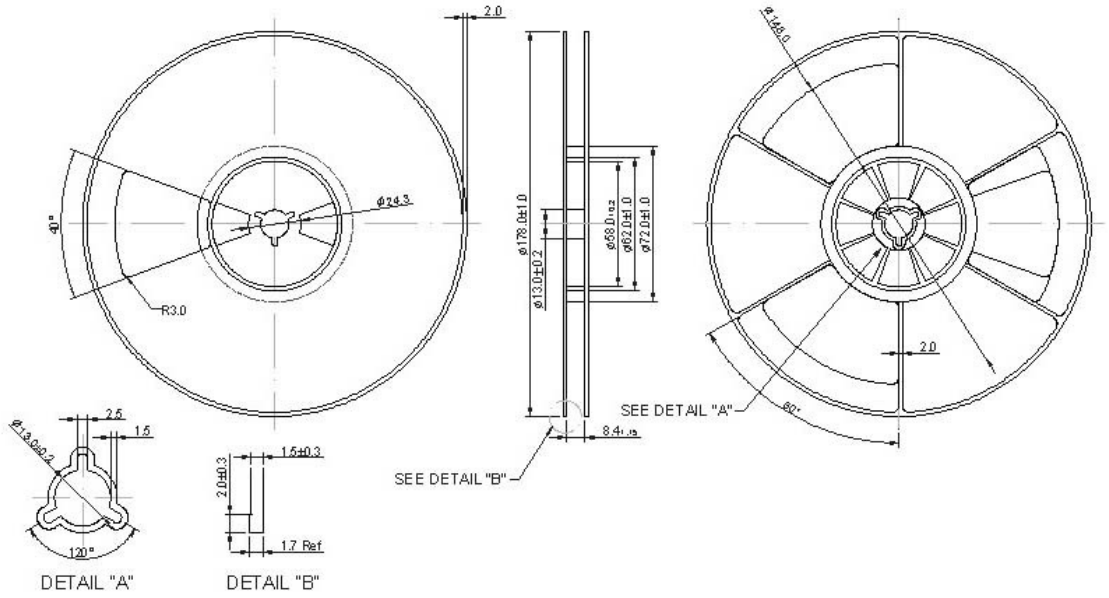



: Land Pattern

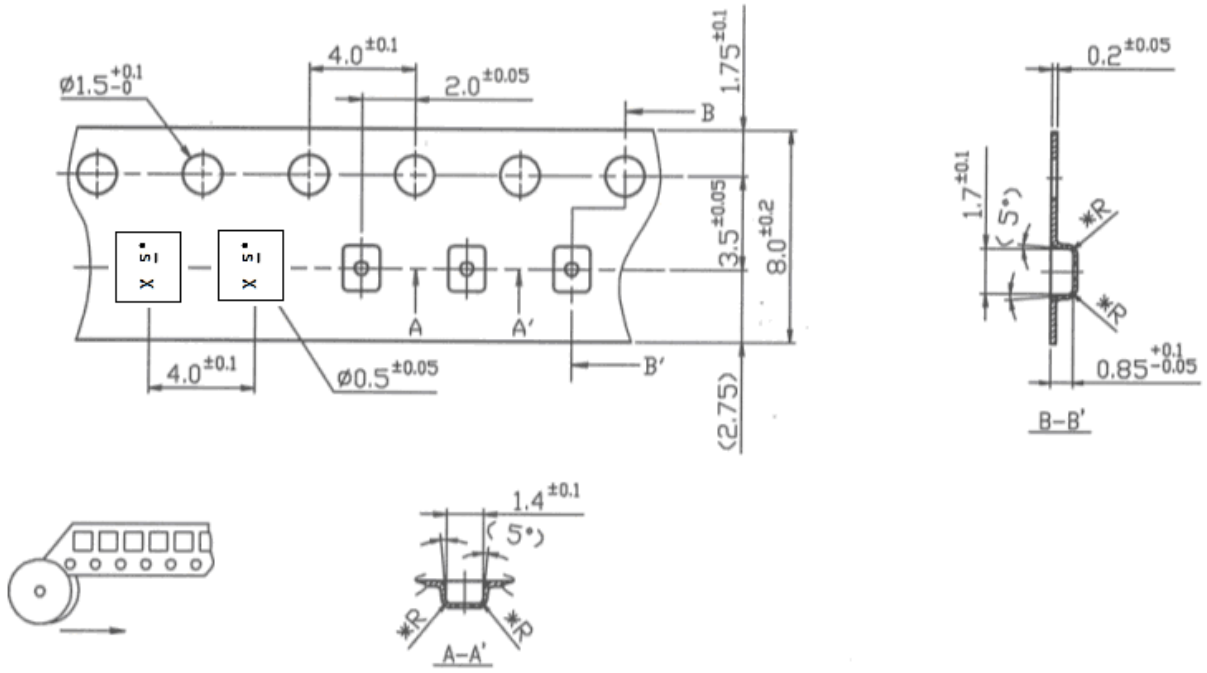
Unit : mm

## G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION




**H. <u>Recommended Reflow Profile</u>:**

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.