



# 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 634.5 MHz SMD 1.4 x 1.1mm

TST Part No.: TA2585A

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

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ Sam Lin *Sam Lin*

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

Date: \_\_\_\_\_ 2019/09/19

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 634.5 MHz SMD 1.4X1.1 mm

MODEL NO.:TA2585A

REV. NO.:1.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 3

RoHS Compliant  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

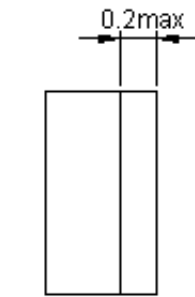
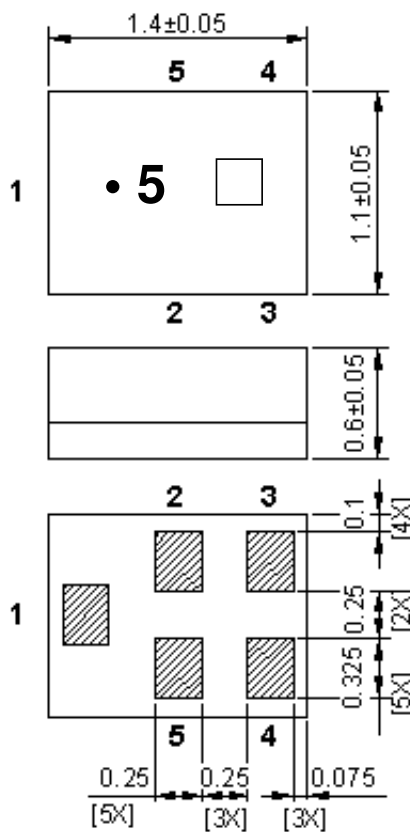
Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

| Item                                        | Unit  | Min. | Type. | Max. |
|---------------------------------------------|-------|------|-------|------|
| <b>Center Frequency</b>                     | MHz   | -    | 634.5 | -    |
| <b>Insertion Loss</b> (617 ~ 652 MHz)       | dB    | -    | 1.8   | 3.0  |
| <b>Amplitude ripple</b> (617 ~ 652 MHz)     | dB    | -    | 0.9   | 2.0  |
| <b>VSWR</b> (617 ~ 652 MHz)                 | -     | -    | 2.0   | 2.5  |
| <b>Attenuation</b>                          |       |      |       |      |
| DC ~ 550 MHz                                | dB    | 28   | 30    | -    |
| 550 ~ 600 MHz                               | dB    | 34   | 36    | -    |
| 670 ~ 700 MHz                               | dB    | 20   | 25    | -    |
| 700 ~ 3000 MHz                              | dB    | 30   | 34    | -    |
| <b>Temperature Coefficient of Frequency</b> | ppm/K | -    | -36   | -    |

\* Specification including temperature tolerant.

### C.OUTLINE DRAWING:



All tolerances are  $\pm 0.05$  mm unless otherwise specified

Coplanarity :  $0.1$  mm max.

1 to 5 : Pin No.

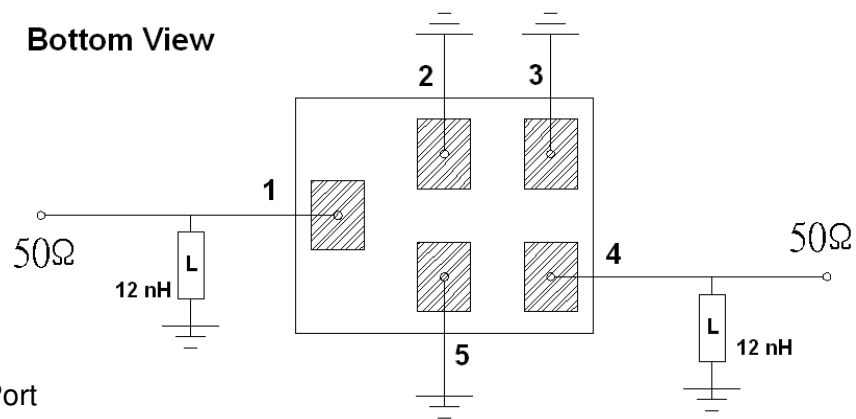
Unit : mm

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

□ : Year/Month Code (Follow the table)

| YEAR/Month | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11       | 12       |
|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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       | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> | <u>G</u> | <u>H</u> | <u>J</u> | <u>K</u> | <u>L</u> | <u>M</u> |
| 2018       | <u>N</u> | <u>P</u> | <u>Q</u> | <u>R</u> | <u>S</u> | <u>T</u> | <u>U</u> | <u>V</u> | <u>W</u> | <u>X</u> | <u>Y</u> | <u>Z</u> |
| 2019       | <u>a</u> | <u>b</u> | <u>c</u> | <u>d</u> | <u>e</u> | <u>F</u> | <u>g</u> | <u>h</u> | <u>i</u> | <u>k</u> | <u>l</u> | <u>m</u> |
| 2020       | <u>n</u> | <u>p</u> | <u>q</u> | <u>r</u> | <u>s</u> | <u>T</u> | <u>u</u> | <u>v</u> | <u>w</u> | <u>x</u> | <u>y</u> | <u>z</u> |

#### D. MEASUREMENT CIRCUIT:

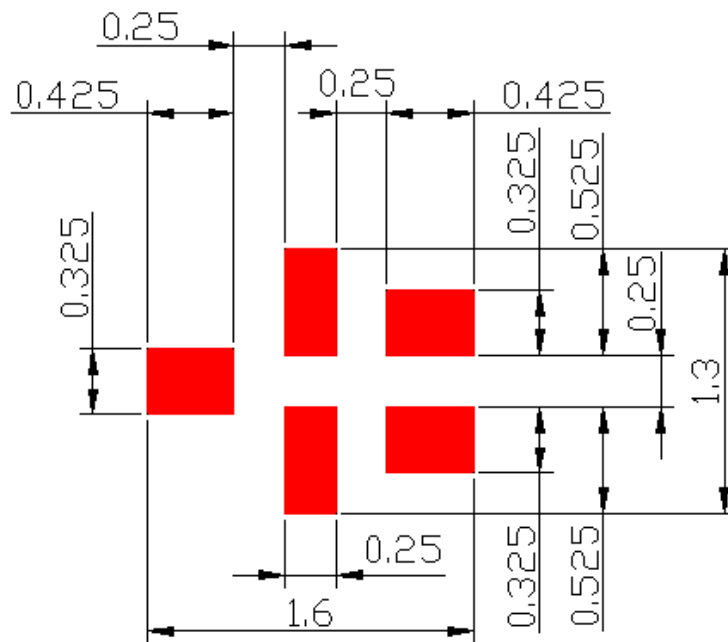


(1): Unbalance Port

(4): Unbalance Port

Others: Ground

#### E. PCB Footprint:

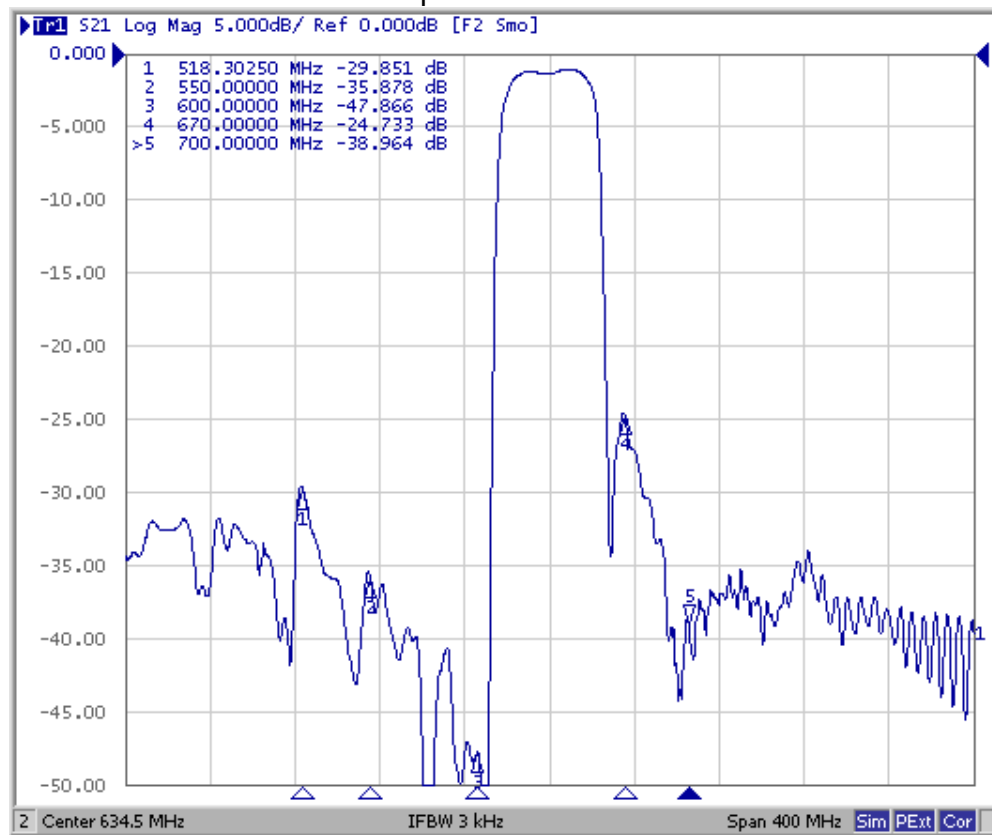


: Land Pattern

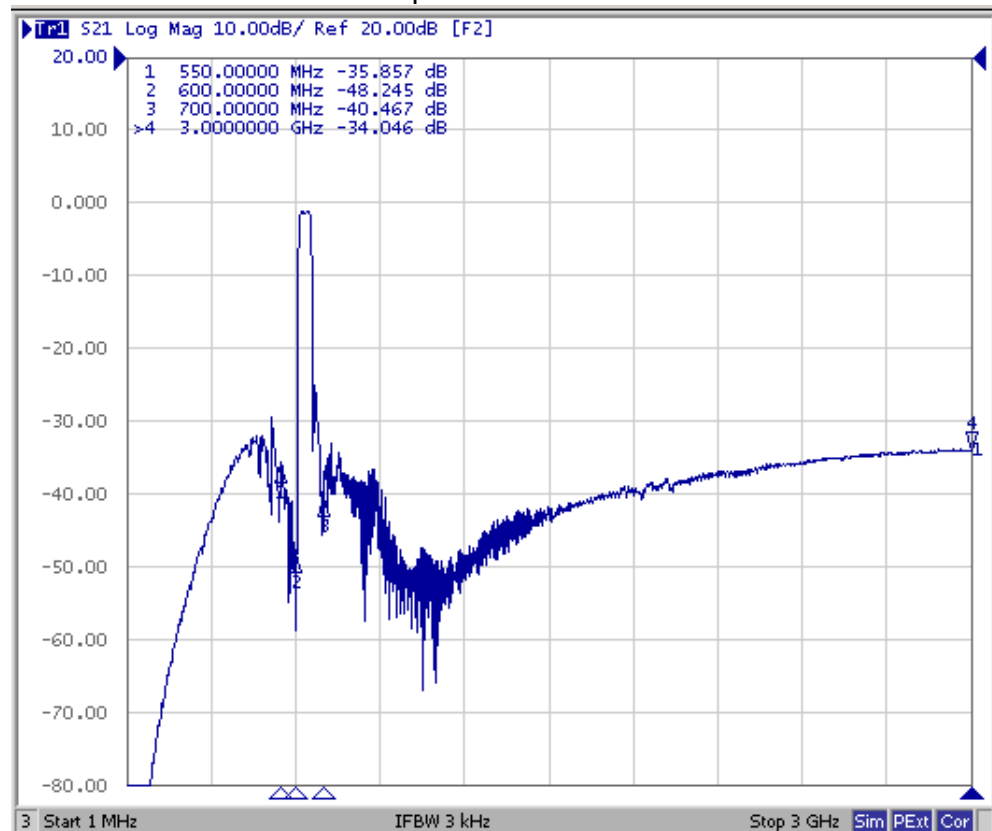
Unit : mm

## F. Frequency Characteristics :

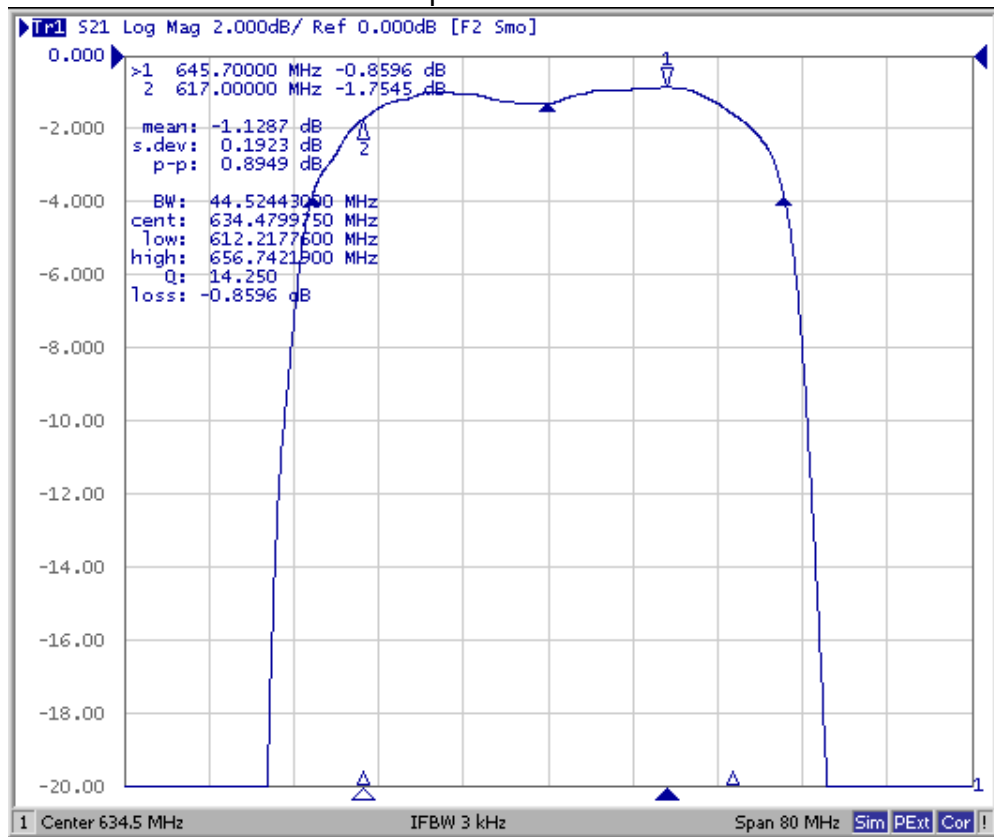
Span 400 MHz



Span 3000 MHz

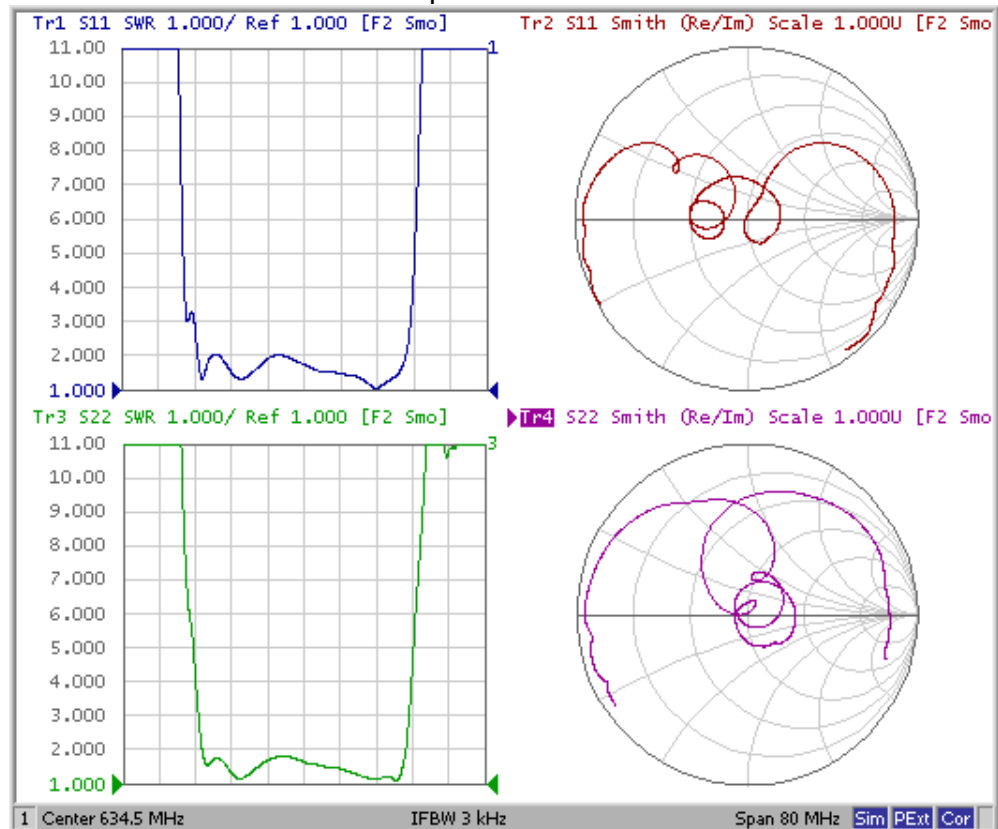


## Span 80 MHz



## Reflection Functions :

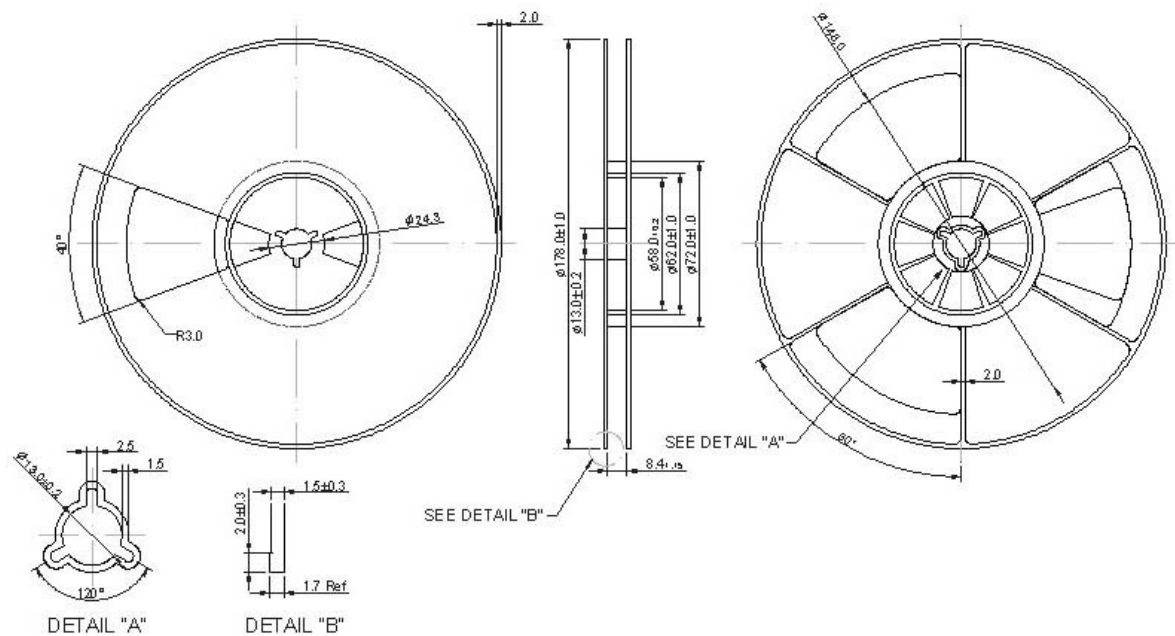
## Span 80 MHz



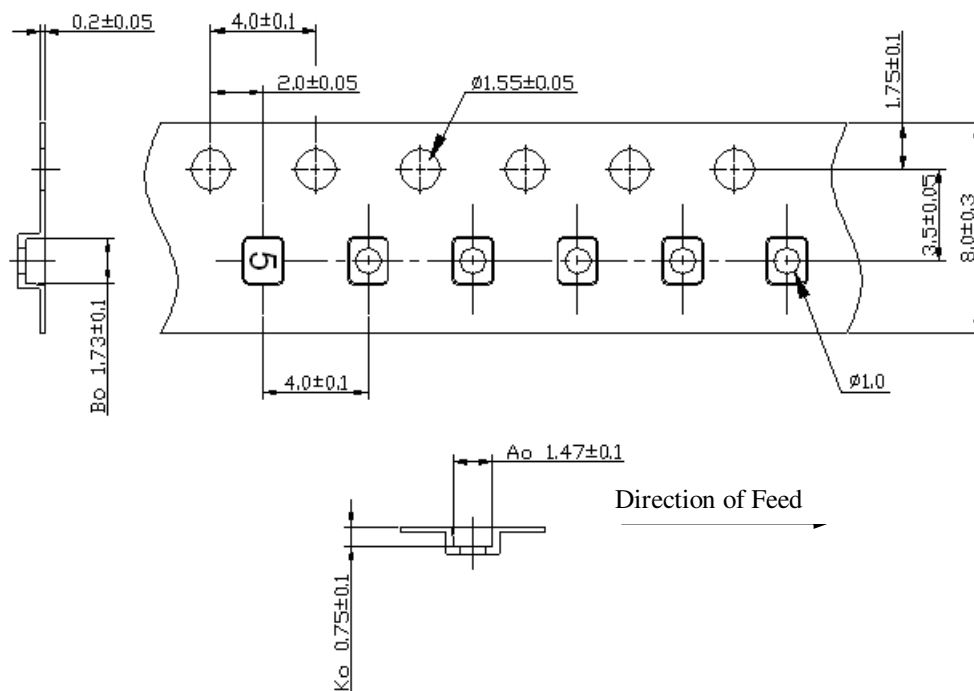
## G. PACKING:

### 1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity )



### 2. TAPE DIMENSION



## 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.

