



# 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 Name: SAW Filter 465MHz SMD 5.0×5.0mm

TST Parts No.:TA0313A

Customer Parts No.:\_\_\_\_\_

Customer signature required

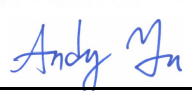
Company:\_\_\_\_\_

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

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

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

Checked by:\_\_\_\_\_ Anne Chen 

Approval by:\_\_\_\_\_ Andy Yu 

Date:\_\_\_\_\_ 2019/07/22

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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**TST DCC**  
Release document

FR-71S03-02



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## SAW Filter 465 MHz

MODEL NO.: TA0313A

REV. NO.:3.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 3 V
3. Operating Temperature: 0°C to +50°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant  
Lead free  
Lead-free soldering

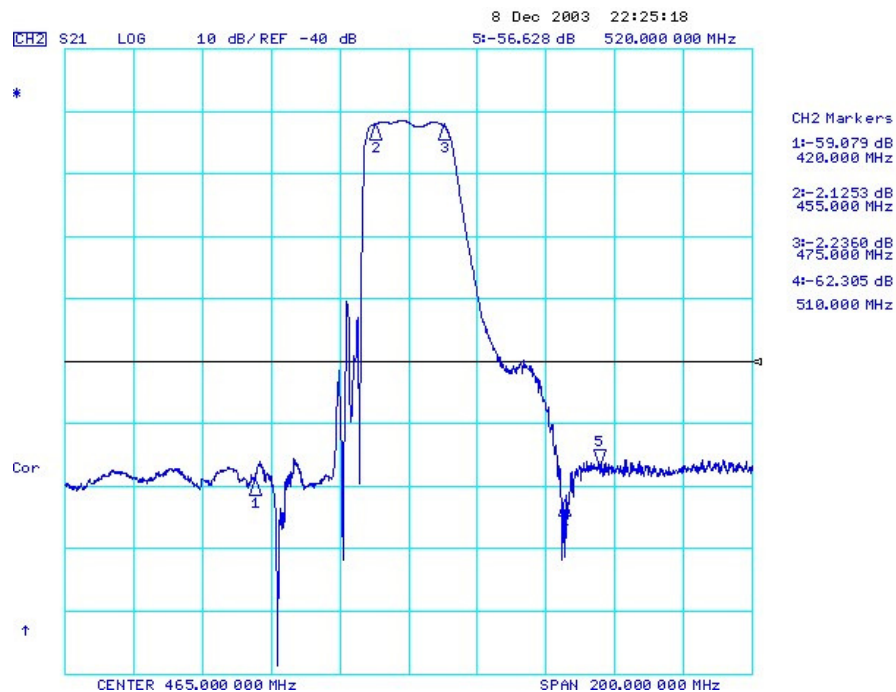
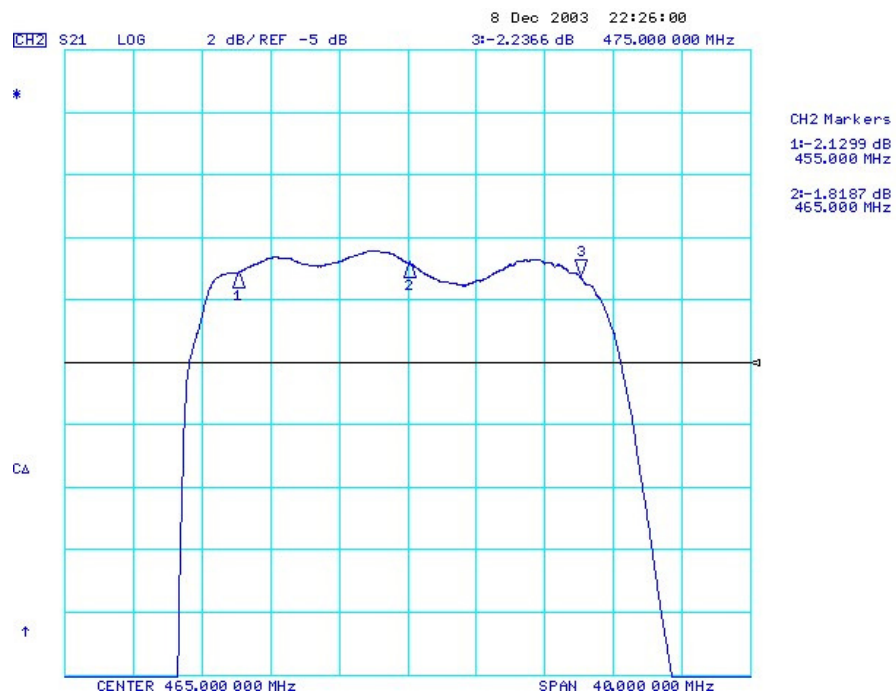
Electrostatic Sensitive Device

### B. ELECTRICAL CHARACTERISTICS:

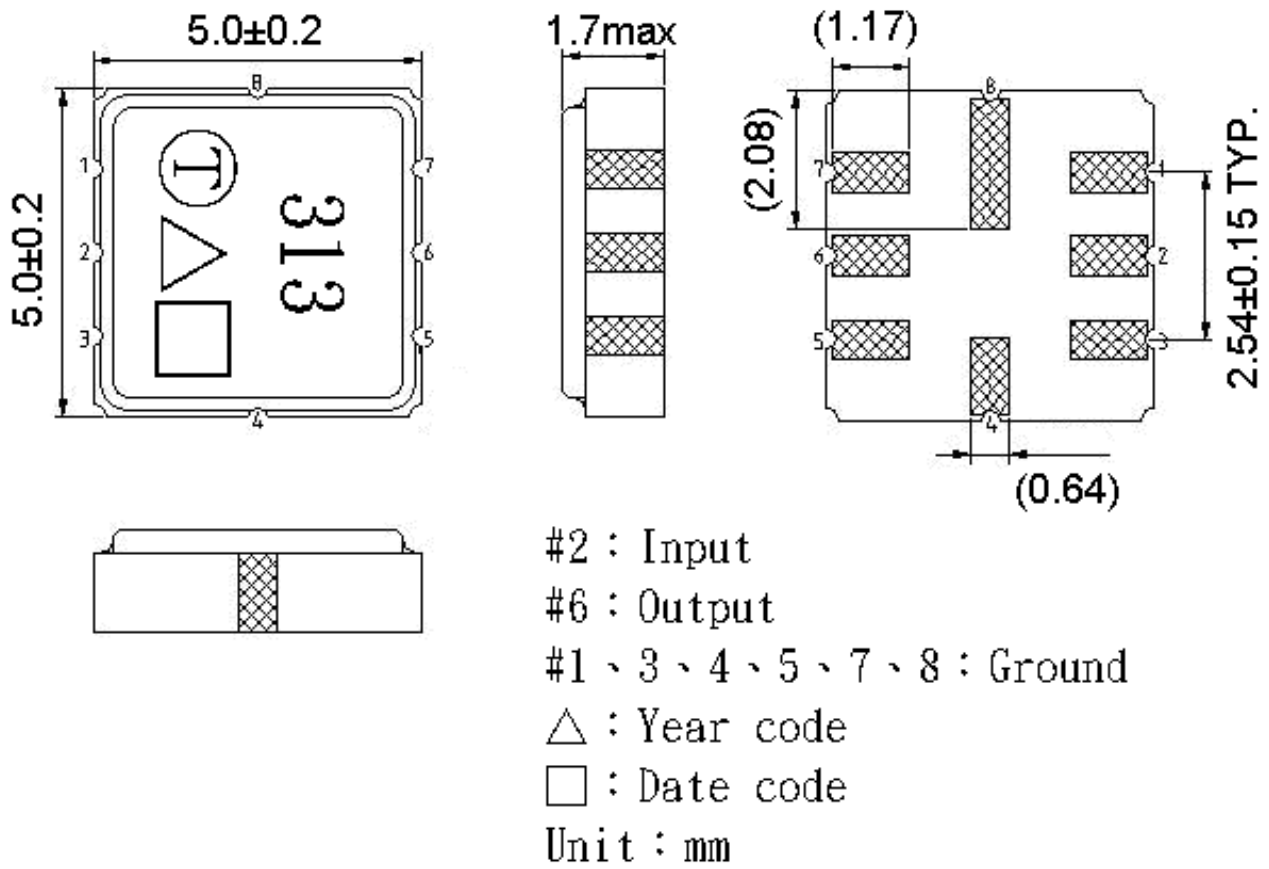
| Item                                               | Unit | Min. | Type. | Max. |
|----------------------------------------------------|------|------|-------|------|
| Center frequency F <sub>c</sub>                    | MHz  | -    | 465   | -    |
| Insertion Loss IL <sub>min</sub> (reference level) | dB   | -    | 1.45  | 2.9  |
| 2dB Bandwidth BW <sub>-2dB</sub>                   | MHz  | 20   | 23.5  | -    |
| Absolute Attenuation:(Reference level from 0dB)    |      |      |       |      |
| F <sub>c</sub> -45 to F <sub>c</sub> -100 MHz      | dB   | 40   | 56    | -    |
| F <sub>c</sub> +45 to F <sub>c</sub> +55 MHz       | dB   | 30   | 56    | -    |
| F <sub>c</sub> +55 to F <sub>c</sub> +100 MHz      | dB   | 40   | 55    | -    |
| Source impedance Z <sub>s</sub>                    | Ω    | -    | 50    | -    |
| Load impedance Z <sub>L</sub>                      | Ω    | -    | 50    | -    |

Note: IL<sub>min</sub> is the minimum of the pass band attenuation. The center frequency F<sub>c</sub> is the mean value of the upper and lower frequencies at the 2dB filter attenuation level relative to the IL<sub>min</sub>.

C. Frequency Characteristics :



# D.OUTLINE DRAWING:



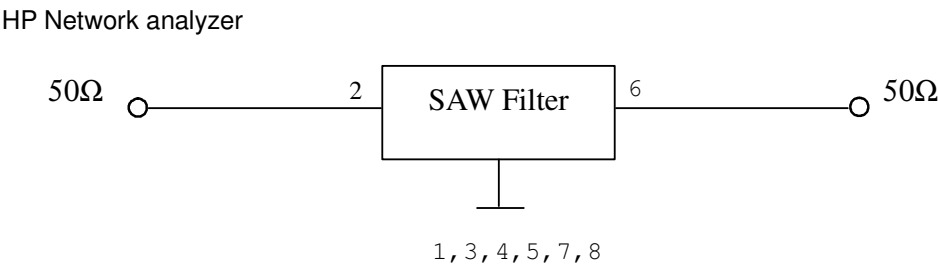
Product / Year Code- 4year cycle

| Year         | 2017<br>2021 | 2018<br>2022 | 2019<br>2023 | 2020<br>2024 |
|--------------|--------------|--------------|--------------|--------------|
| Product Code | A            | a            | <u>A</u>     | <u>a</u>     |

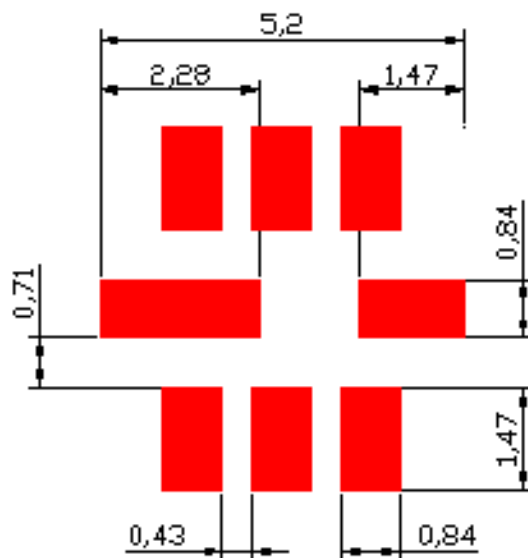
Week Code Table

| 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. MEASUREMENT CIRCUIT:

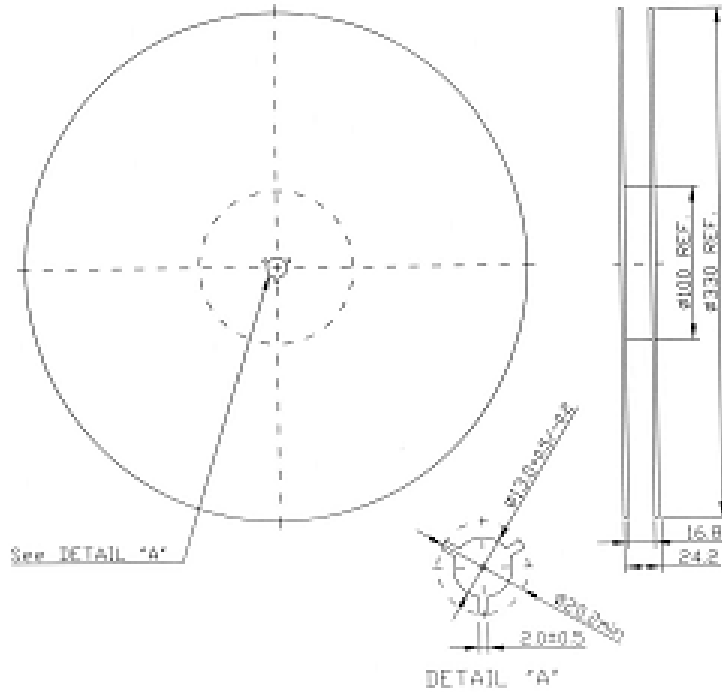


F. PCB FOOTPRINT:

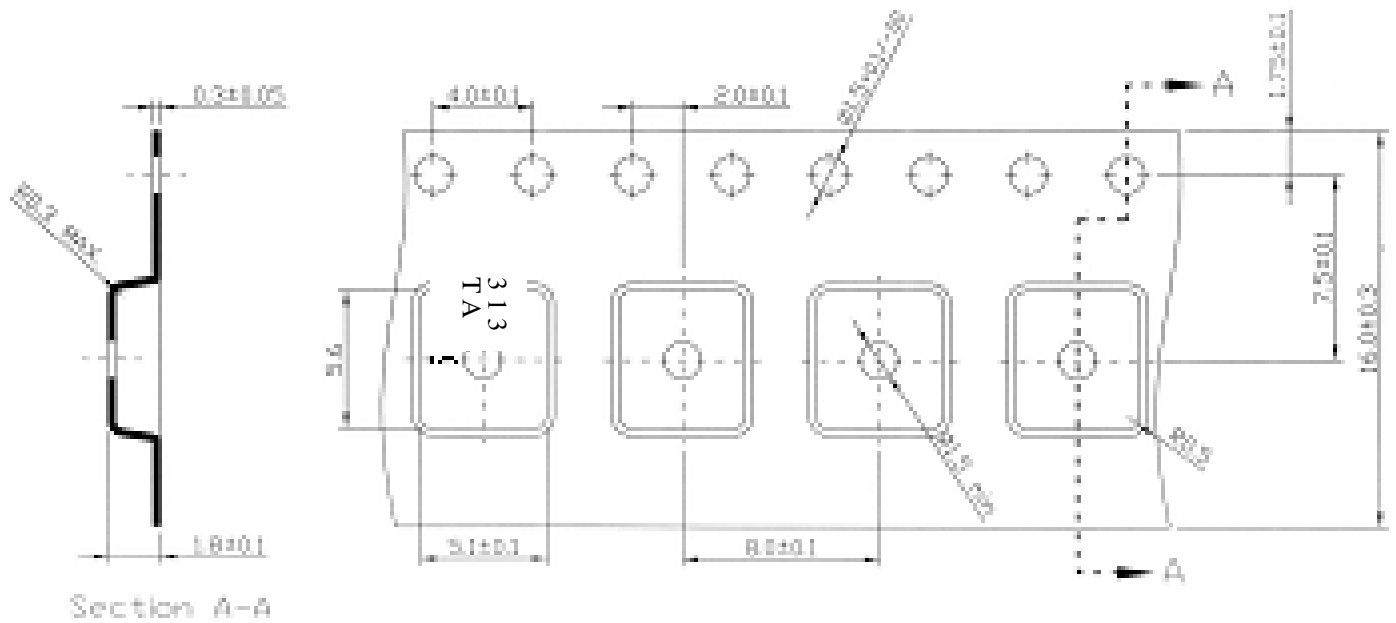


### G. PACKING:

## 1. REEL DIMENSION



## 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.

