



# 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: 1000.634MHz SMD 3.8 x 3.8 mm SAW Resonator

TST Parts No.:TC0629A

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

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

Checked by:\_\_\_\_\_ Kazuma Lee *Kazuma Lee*

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

Date:\_\_\_\_\_ 2019/4/25

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 Resonator 1000.634MHz

MODEL NO.: TC0629A

Rev No.2.0

### A. FEATURES:

1. 1-Port Resonator.

### B. MAXIMUM RATING:

1. Input Power Level: 0 dBm

2. DC voltage: 3 V

3. Operating Temperature: -40°C to +85°C

4. Storage Temperature: -40°C to +85°C

5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant  
Lead free  
Lead-free soldering

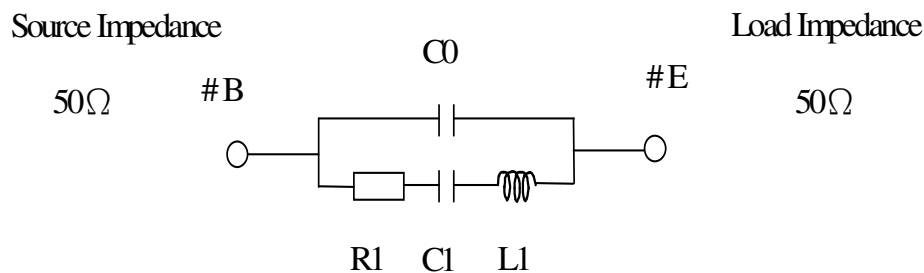
Electrostatic Sensitive Device

### C. ELECTRICAL CHARACTERISTICS:

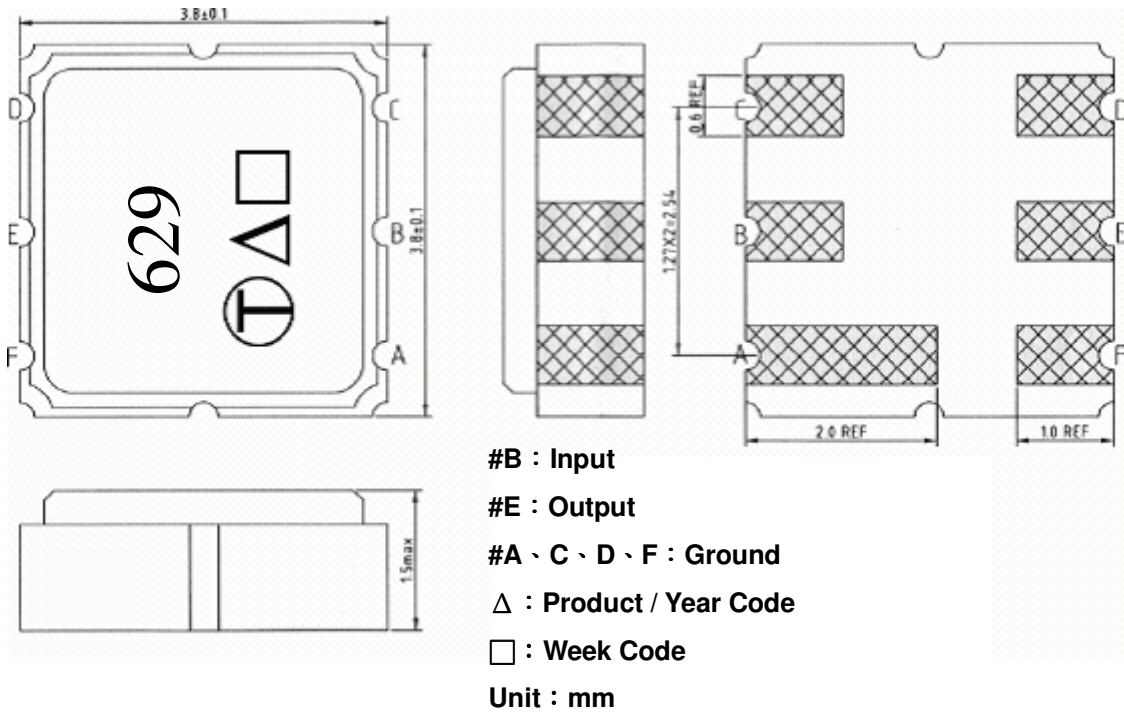
| Characteristic           | Units          | Minimum           | Typical  | Maximum  |
|--------------------------|----------------|-------------------|----------|----------|
| Center frequency Fr      | <b>MHz</b>     | 1000.584          | 1000.634 | 1000.684 |
| <b>Insertion Loss IL</b> | <b>dB</b>      | -                 | 1.86     | 2.3      |
| Equivalent Elements      |                |                   |          |          |
| Motional capacitance C1  | <b>fF</b>      | -                 | 1.13     | -        |
| Motional inductance L1   | <b>μH</b>      | -                 | 22.37    | -        |
| Motional resistance R1   | <b>Ohm</b>     | -                 | 20.30    | -        |
| Parallel capacitance Co  | <b>pF</b>      | -                 | 2.24     | -        |
| Temp.coeff.              | <b>ppm/c*2</b> | -                 | 0.032    | -        |
| Turnover To              | <b>deg.C</b>   | -                 | 25       | -        |
| Package size             |                | SMD 3.8X3.8X1.4mm |          |          |

### D. EQUIVIRENT CIRCUIT:

One-Port Resonator:



**E. OUTLINE DRAWING:**



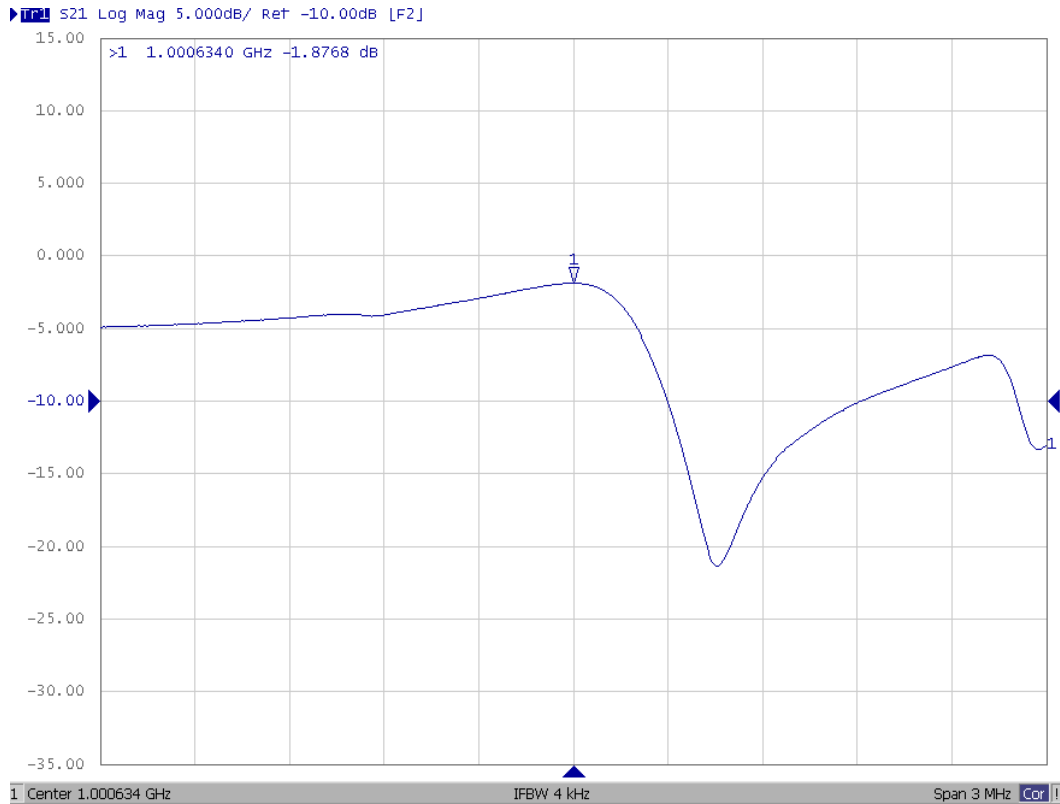
**Product / Year Code**

|           |          |          |
|-----------|----------|----------|
| Year      | 2013     | 2014     |
|           | 2015     | 2016     |
|           | 2017     | 2018     |
| Year Code | <b>C</b> | <b>c</b> |

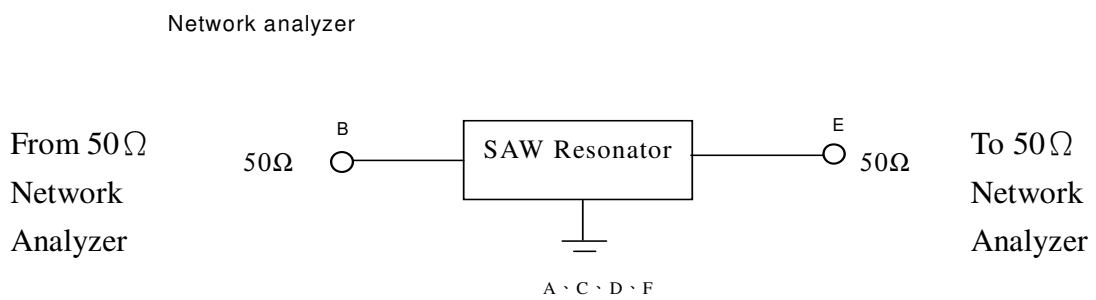
**Week Code**

|      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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    |

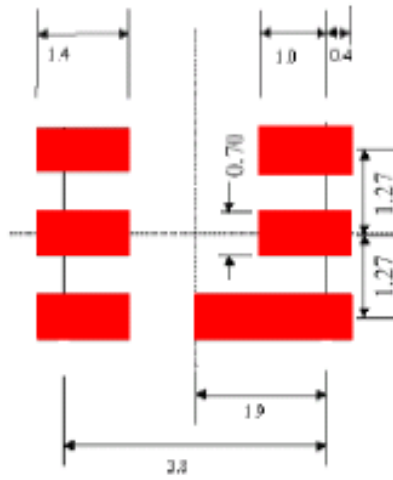
## F. FREQUENCY CHARACTERISTICS



## G. TEST CIRCUIT:



H. LAND PATTERN:



G. PACKING:

1. REEL DIMENSION

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

