



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Product Specifications Approval Sheet

Product Description: SAW Filter 289 MHz SMD 3.0×3.0 mm (BW=1 MHz)

TST Part No.: TA1725A

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

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ David Chang 

Approved by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 2014/03/24

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.



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## SAW Filter 289 MHz

MODEL NO.: TA1725A

REV. NO.:1

### 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

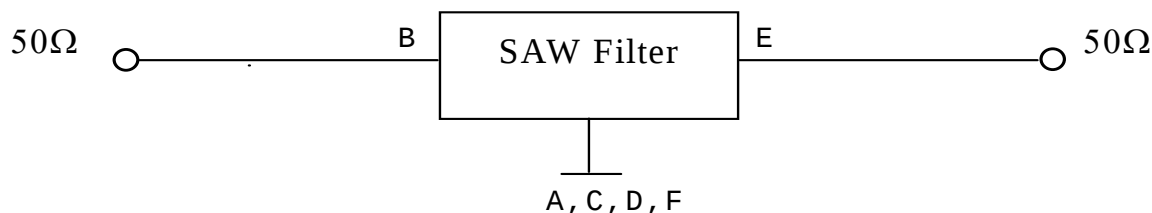
Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

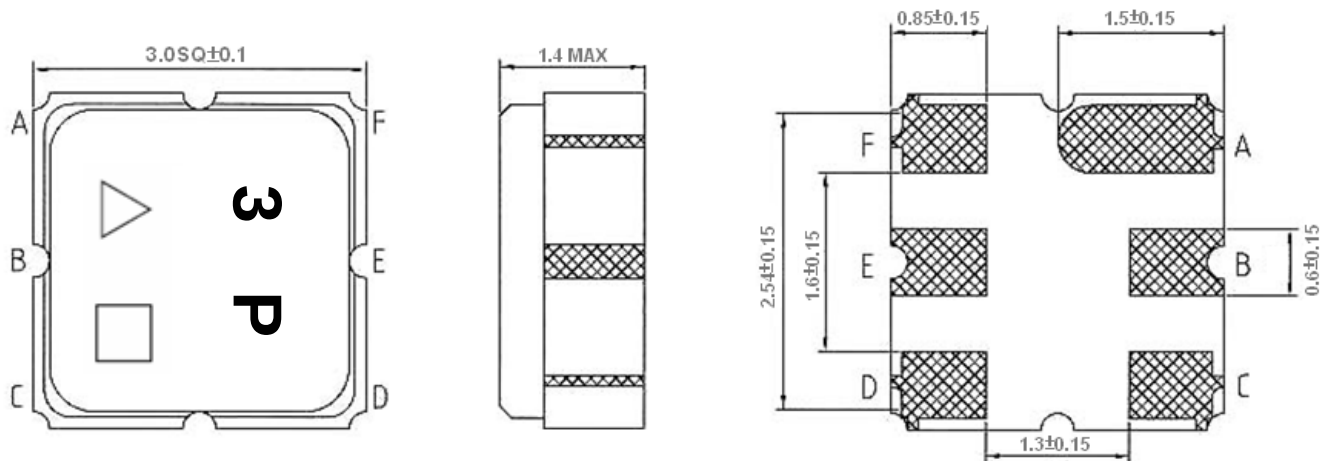
| Item                                       | Unit  | Min. | Typ. | Max. |
|--------------------------------------------|-------|------|------|------|
| Center frequency <b>Fc</b>                 | MHz   | -    | 289  | -    |
| Insertion Loss (288.5~289.5 MHz) <b>IL</b> | dB    | -    | 1.7  | 2.4  |
| Amplitude Ripple (288.5~289.5 MHz)         | dB    | -    | 0.2  | 1.2  |
| VSWR (288.5~289.5 MHz)                     | -     | -    | 1.2  | 1.8  |
| Attenuation (Reference level from 0 dB)    |       |      |      |      |
| 239 ~ 269 MHz                              | dB    | 55   | 63   | -    |
| 269 ~ 279 MHz                              | dB    | 44   | 48   | -    |
| 279 ~ 282 MHz                              | dB    | 35   | 38   | -    |
| 310 ~ 324 MHz                              | dB    | 40   | 43   | -    |
| 324 ~ 339 MHz                              | dB    | 50   | 54   | -    |
| Temperature coefficient of frequency       | ppm/k | -    | -36  | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

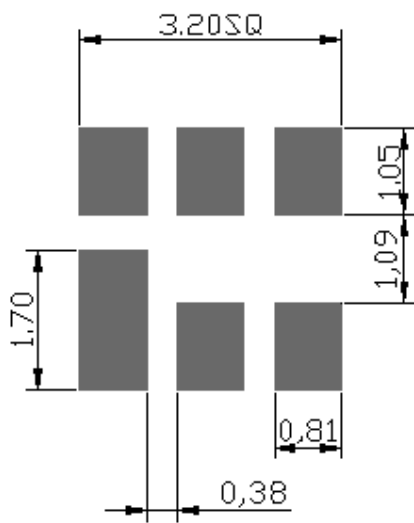
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : Date Code

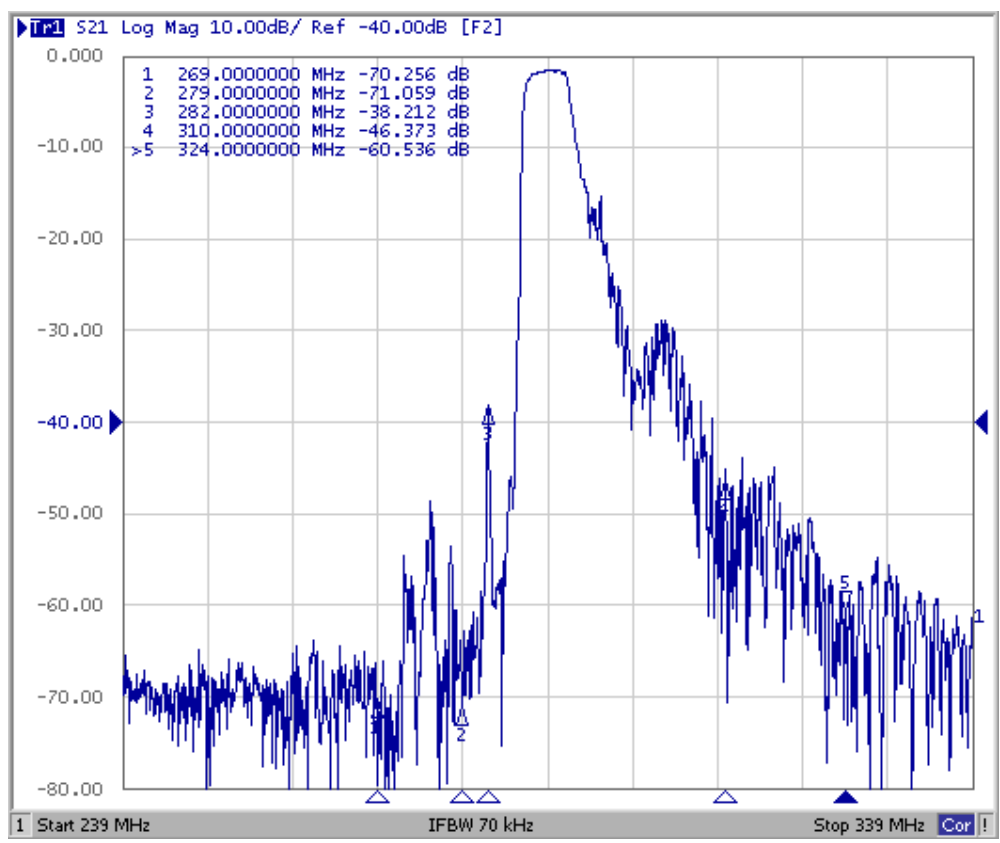
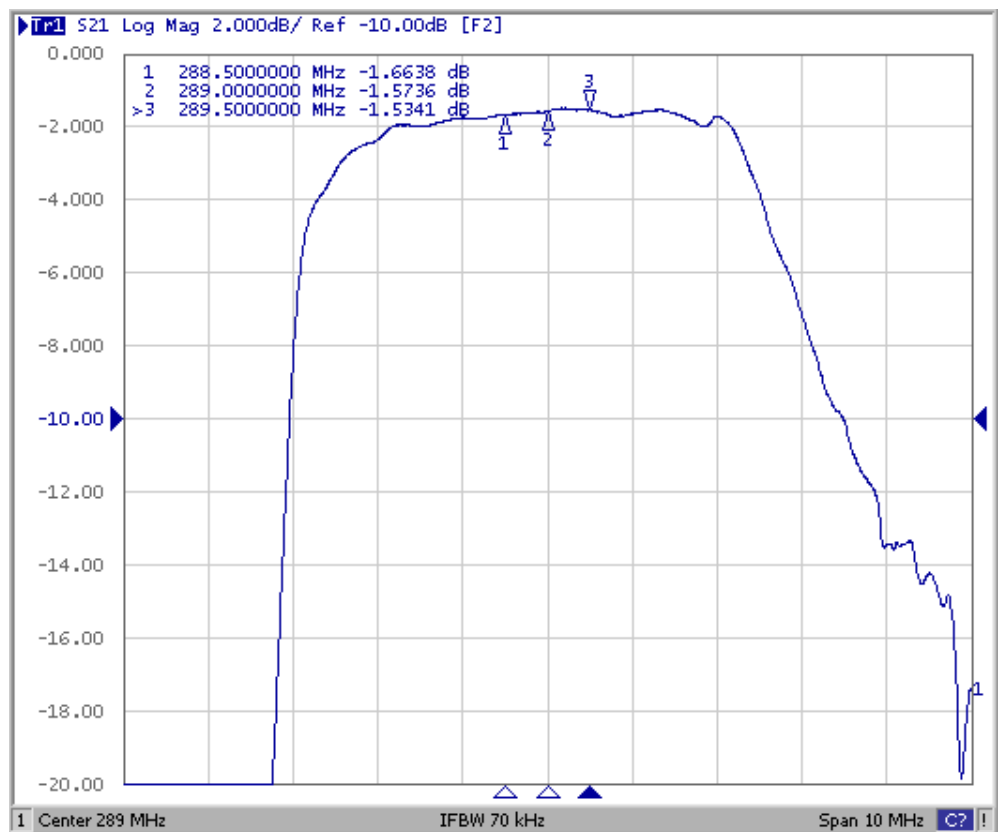
Date Code Table:

| 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. PCB Footprint:

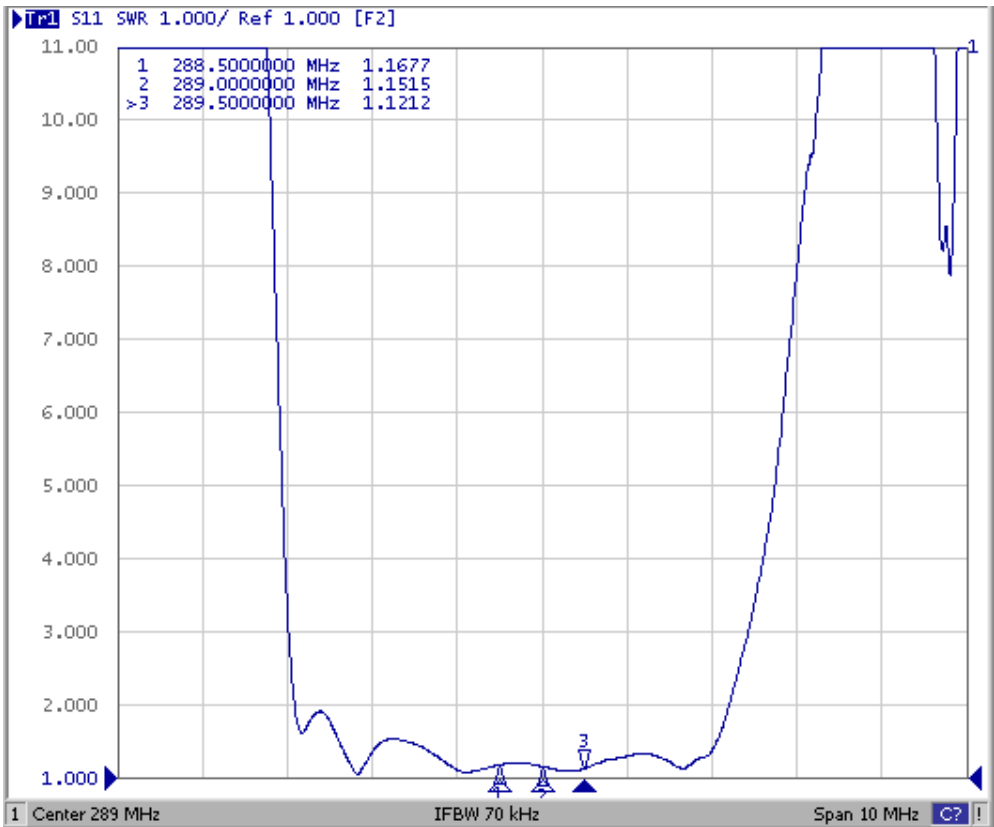


F. Frequency Characteristics:

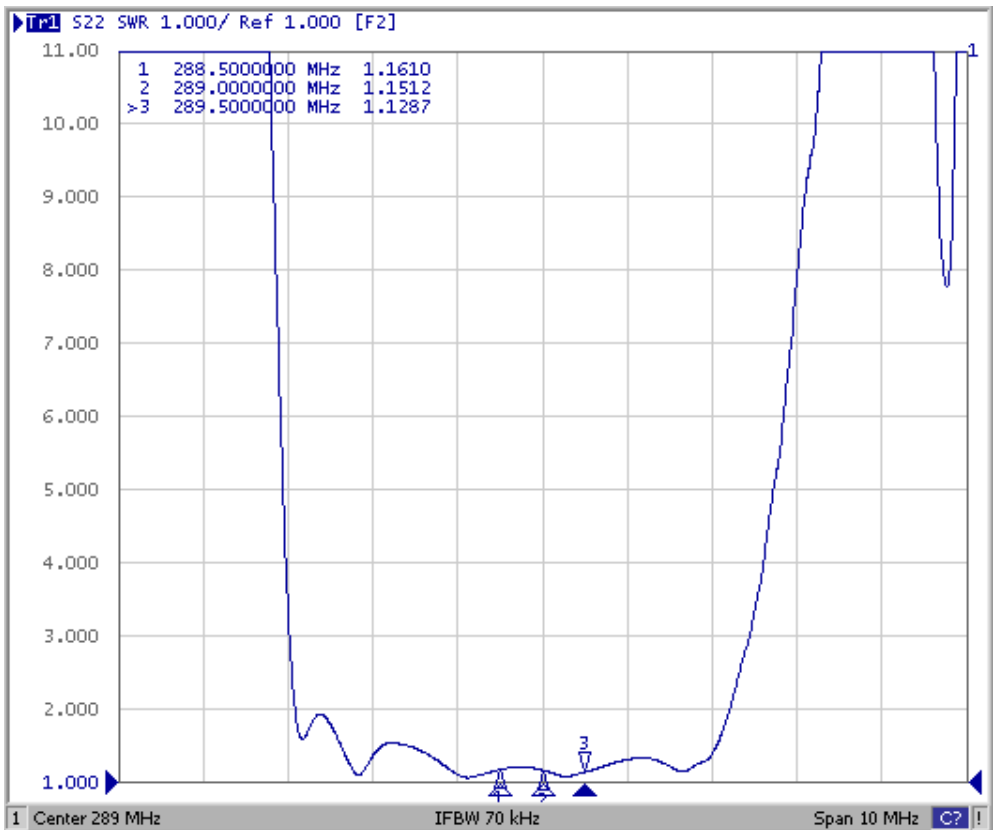


Reflection Functions:

S11



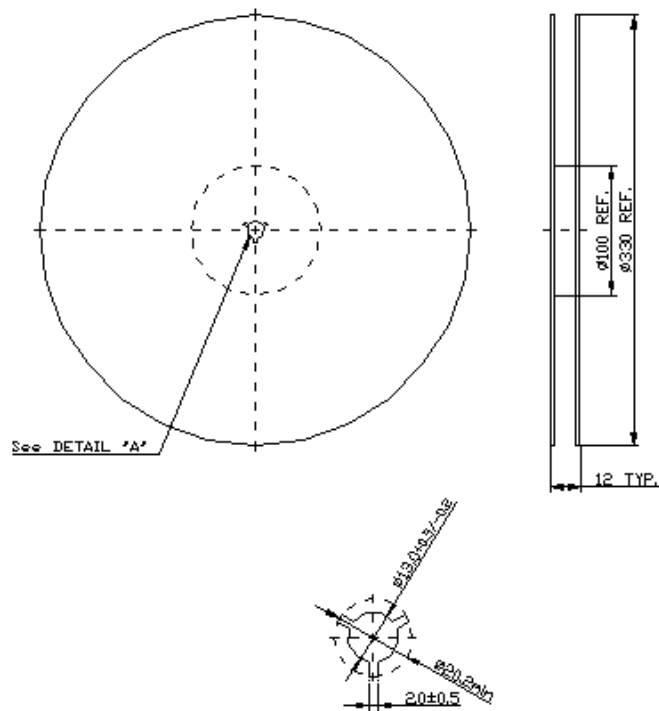
S22



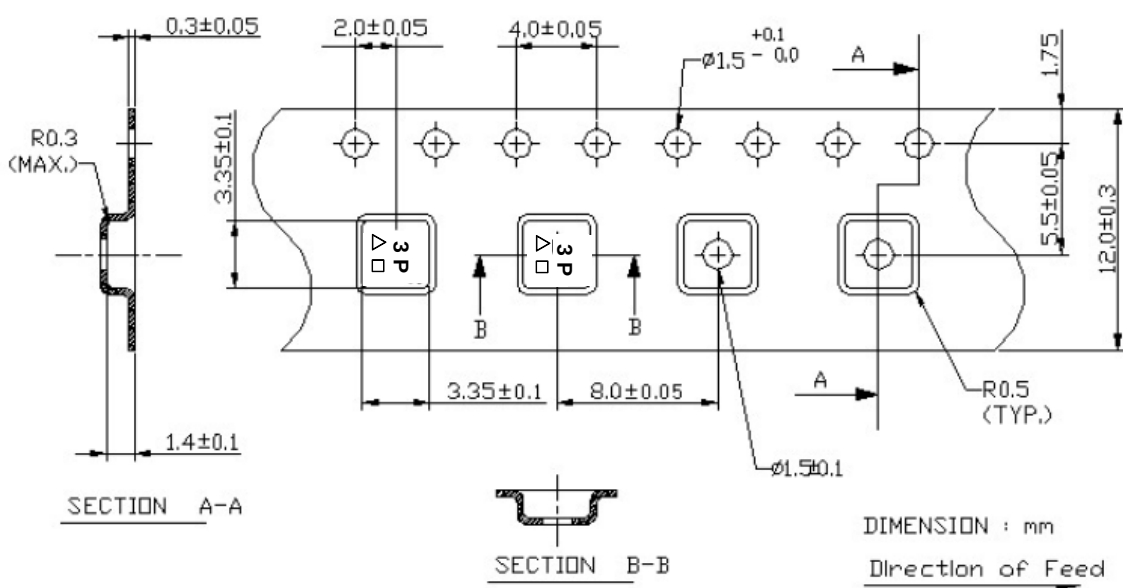
## G. PACKING:

### 1. REEL DIMENSION

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



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE:**

