



# 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 629 MHz SMD 3.0x3.0 mm

TST Part No.: TA1212A

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

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

Checked by: \_\_\_\_\_ David Chang 張閔智

Approved by: \_\_\_\_\_ Francis Chen 陳文

Date: \_\_\_\_\_ 2010/05/13

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 629MHz

MODEL NO.:TA1212A

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

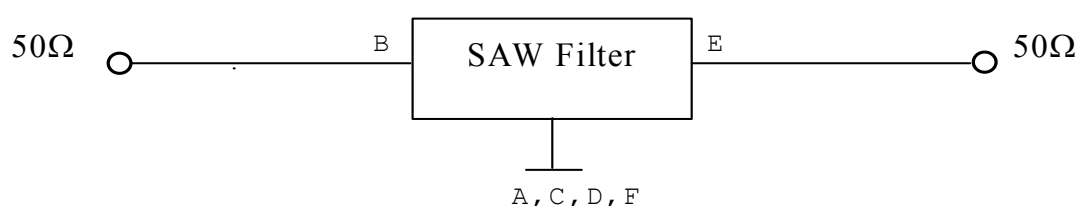
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

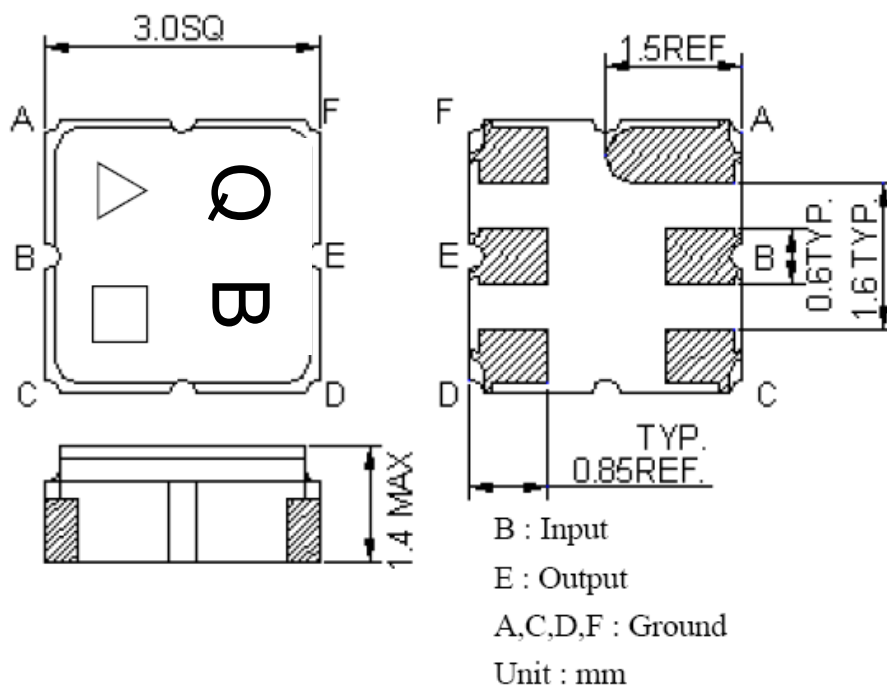
| Item                                     | Unit   | Min. | Typ. | Max. |
|------------------------------------------|--------|------|------|------|
| Center frequency Fc                      | MHz    | -    | 629  | -    |
| Min. Insertion loss (626.5~631.5 MHz) IL | dB     | -    | 1.45 | 3    |
| Amplitude Ripple (626.5~631.5 MHz)       | dB     | -    | 0.25 | 2    |
| VSWR (626.5~631.5 MHz)                   | -      | -    | 1.7  | 2    |
| Group Delay Ripple (626.5~631.5 MHz)     | ns     | -    | 14   | 80   |
| Attenuation (Reference level from 0 dB)  |        |      |      |      |
| 0 ~ 560 MHz                              | dB     | 45   | 56   | -    |
| 560 ~ 595 MHz                            | dB     | 40   | 52   | -    |
| 660 ~ 680 MHz                            | dB     | 25   | 40   | -    |
| 680 ~ 700 MHz                            | dB     | 35   | 49   | -    |
| 700 ~ 1000 MHz                           | dB     | 45   | 51   | -    |
| 1000 ~ 1500 MHz                          | dB     | 35   | 43   | -    |
| Temperature Coefficient of Frequency     | Ppm/°C | -    | -36  | -    |

### C. MEASUREMENT CIRCUIT:

HP Network analyzer



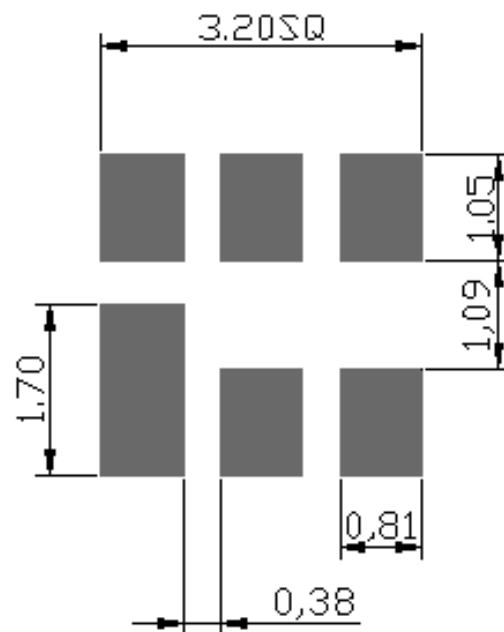
## D. OUTLINE DRAWING:



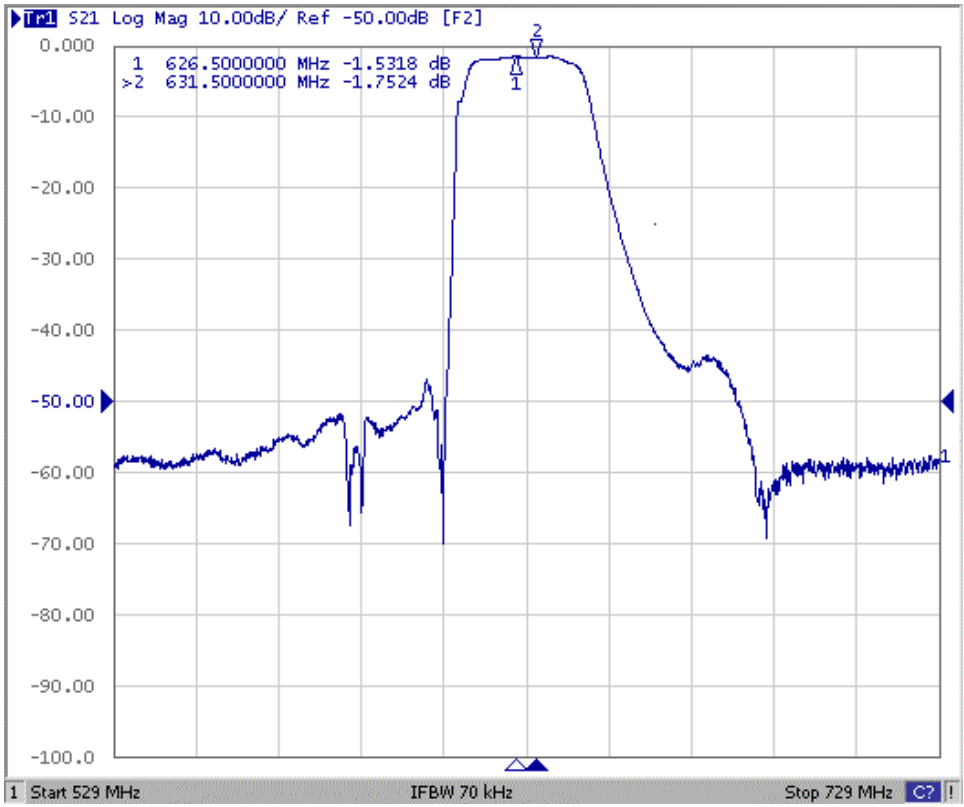
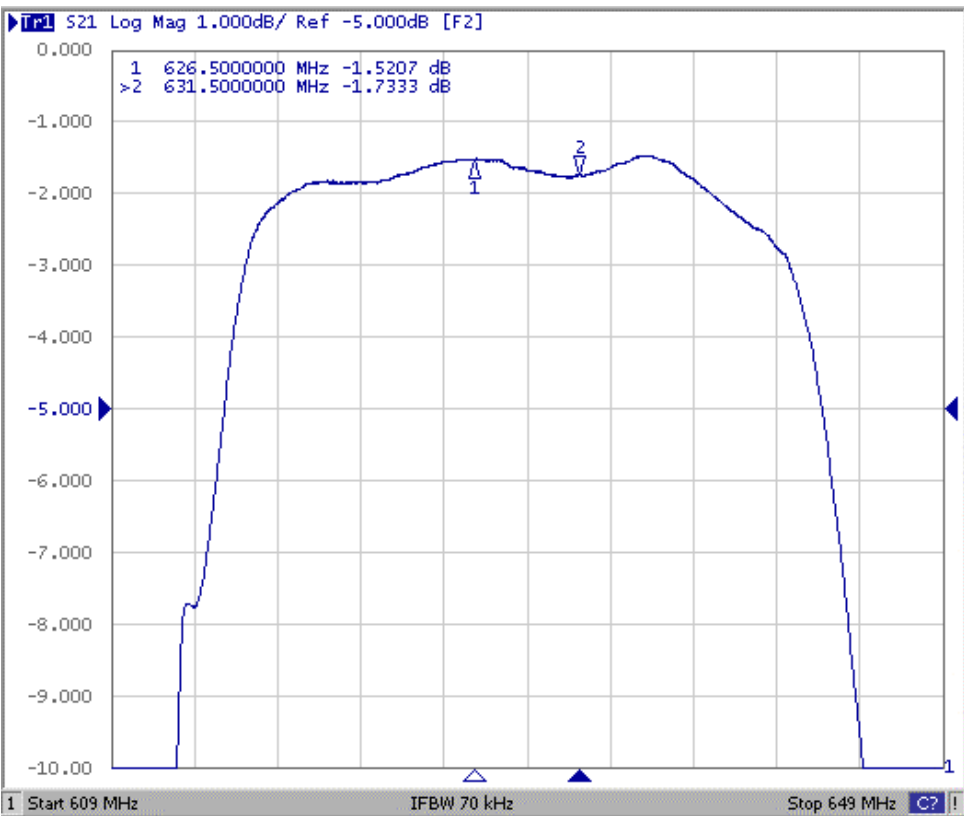
△ : Year Code (2006->6, ..., 2009->9)

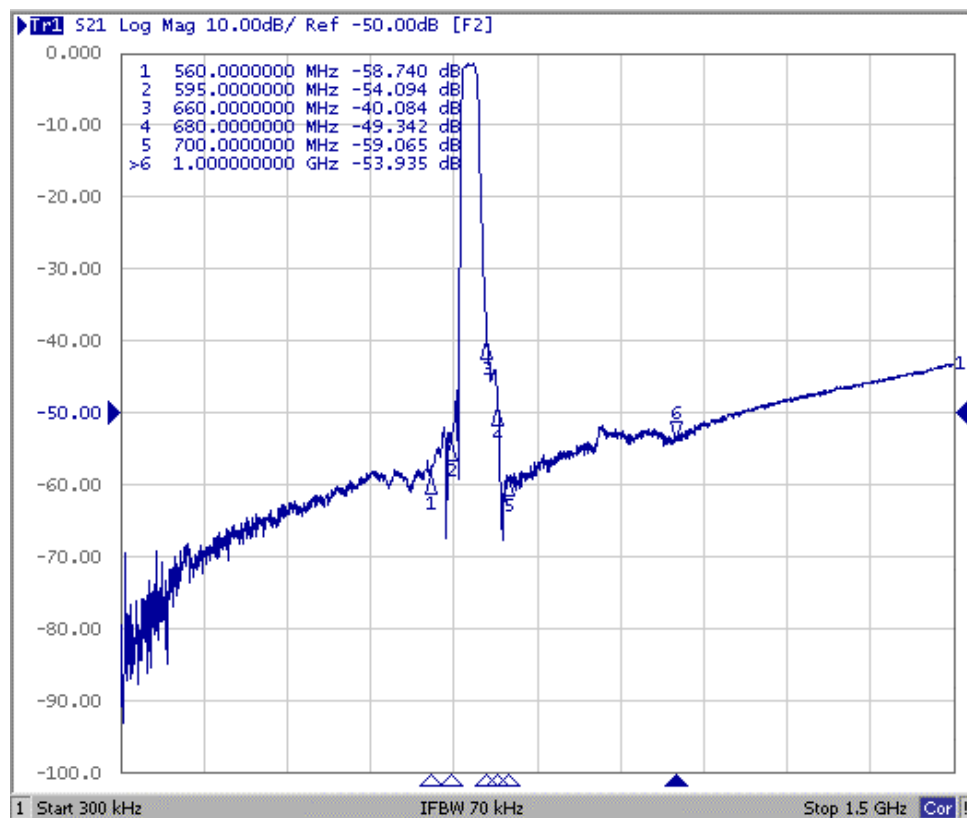
□ : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

## E. PCB Footprint:



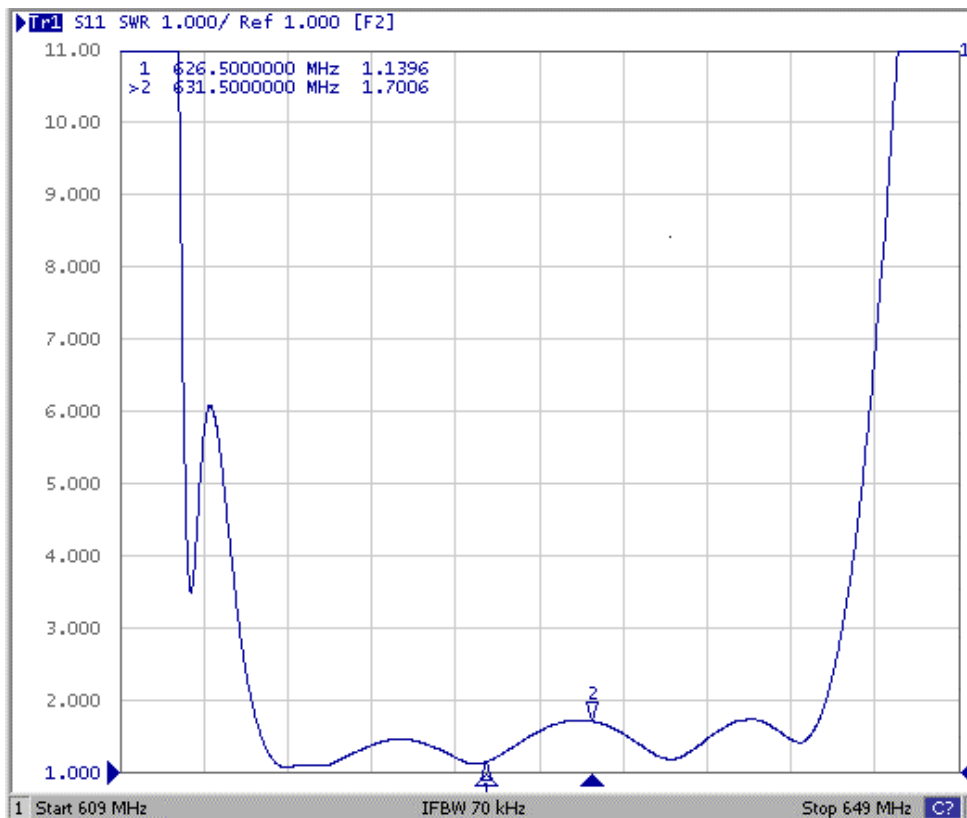
F. Frequency Characteristics :



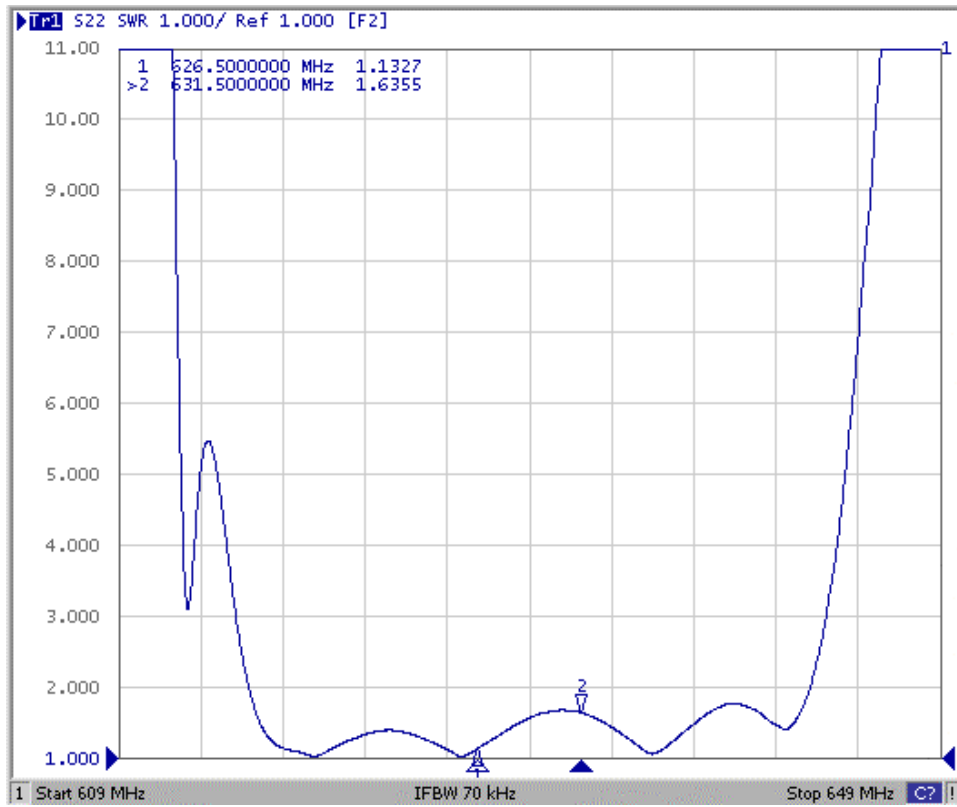


## Reflection Functions :

### S11

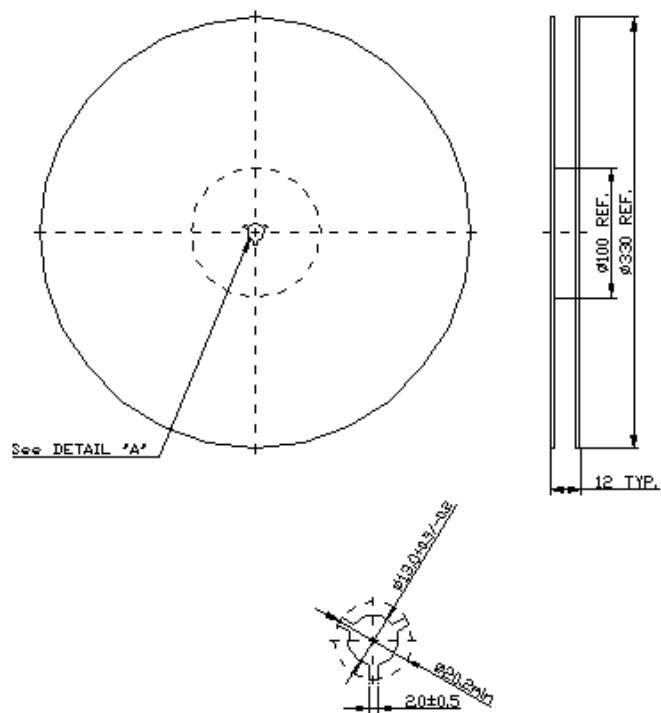


## S22

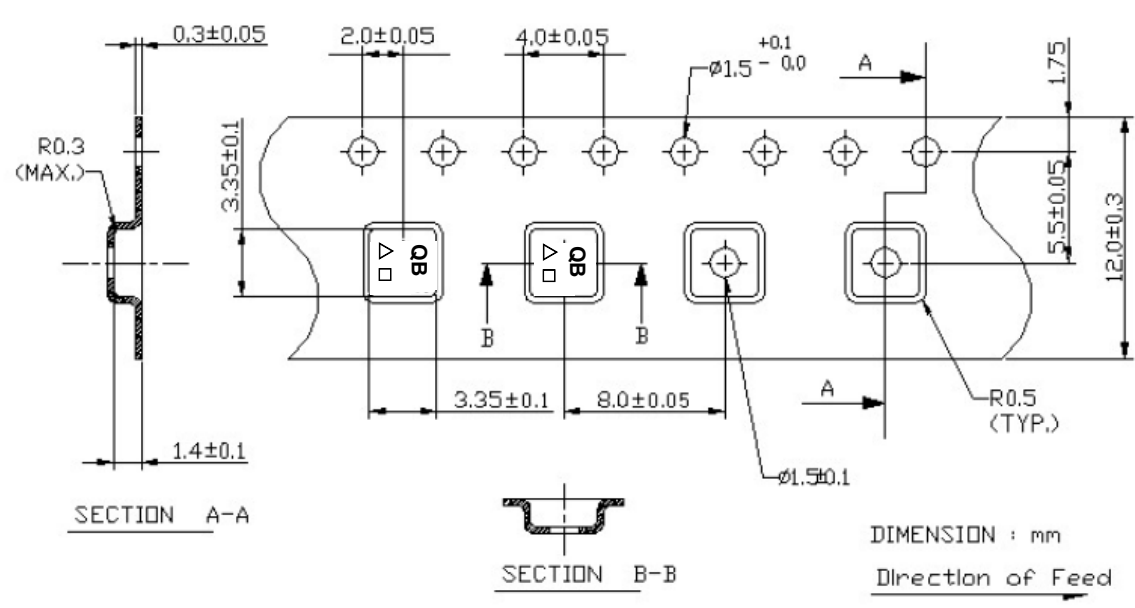


### G. PACKING:

#### 1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

