



# 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

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## Product Specifications Approval Sheet

Product Description: SAW Filter 1227MHz SMD 3.0X3.0 mm (BW=2MHz)

TST Part No.: TA1228BB

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

Customer signature required

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

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

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

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

Checked by: Kevin *Kevin*

Approved by: Francis Chen *[Signature]*

Date: 2011/5/2

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 1227 MHz

MODEL NO.: TA1228BB

REV. NO.:1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>

2. DC voltage: 5 V

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

4. Storage Temperature: -40°C ~ +105°C

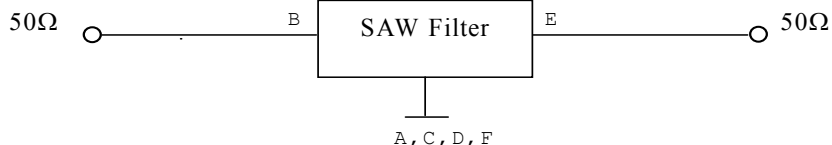
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Item                                                   |                |      | Min. | Typ. | Max. |
|--------------------------------------------------------|----------------|------|------|------|------|
| Center frequency                                       | F <sub>c</sub> | (dB) | -    | 1227 | -    |
| Insertion loss within F <sub>c</sub> +/- 1 MHz         | IL             | (dB) | -    | 2.8  | 3.5  |
| Amplitude ripple (p-p) within F <sub>c</sub> +/- 1 MHz |                | (dB) | -    | 0.2  | 1.0  |
| VSWR within F <sub>c</sub> +/- 1 MHz                   |                |      | -    | 1.5  | 2.5  |
| Attenuation (Reference level from 0 dB)                |                |      |      |      |      |
| 880 ~ 915                                              | MHz            | (dB) | 35   | 37   | -    |
| 1177                                                   | MHz            | (dB) | 30   | 47   | -    |
| 1187                                                   | MHz            | (dB) | 20   | 47   | -    |
| 1267                                                   | MHz            | (dB) | 20   | 62   | -    |
| 1277                                                   | MHz            | (dB) | 30   | 52   | -    |
| 1710 ~ 1785                                            | MHz            | (dB) | 48   | 51   | -    |
| Source impedance                                       | Z <sub>s</sub> | (Ω)  | -    | 50   | -    |
| Load impedance                                         | Z <sub>L</sub> | (Ω)  | -    | 50   | -    |

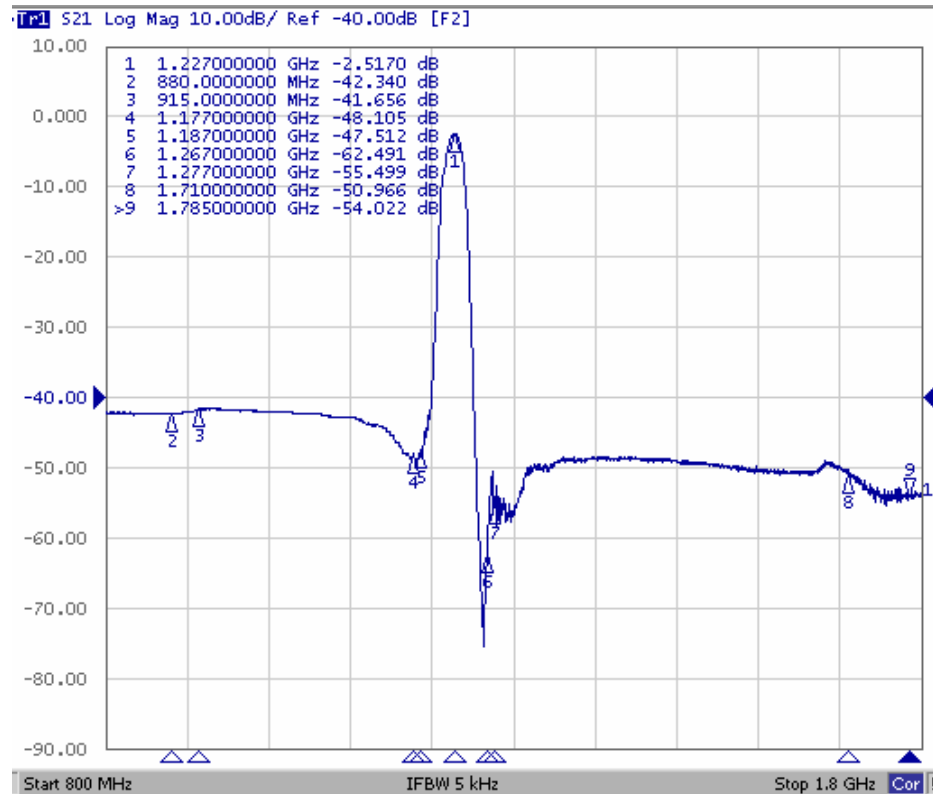
### C. MEASUREMENT CIRCUIT:

HP Network analyzer

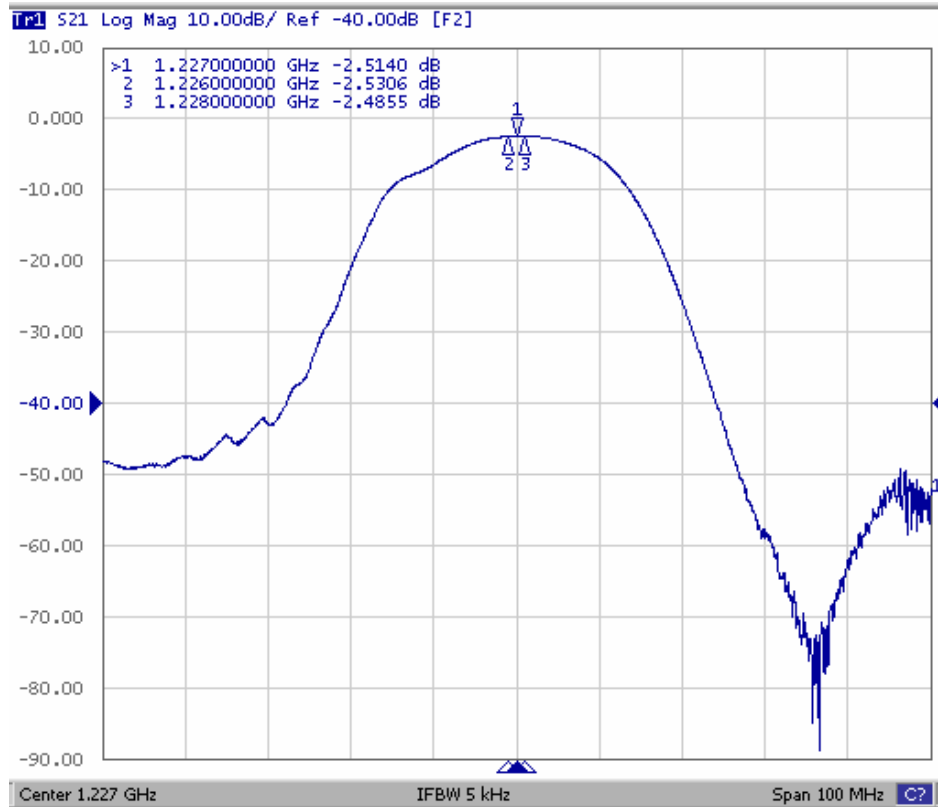


## D. Frequency Characteristics :

### 1. Wideband response (span: 800~1800MHz)

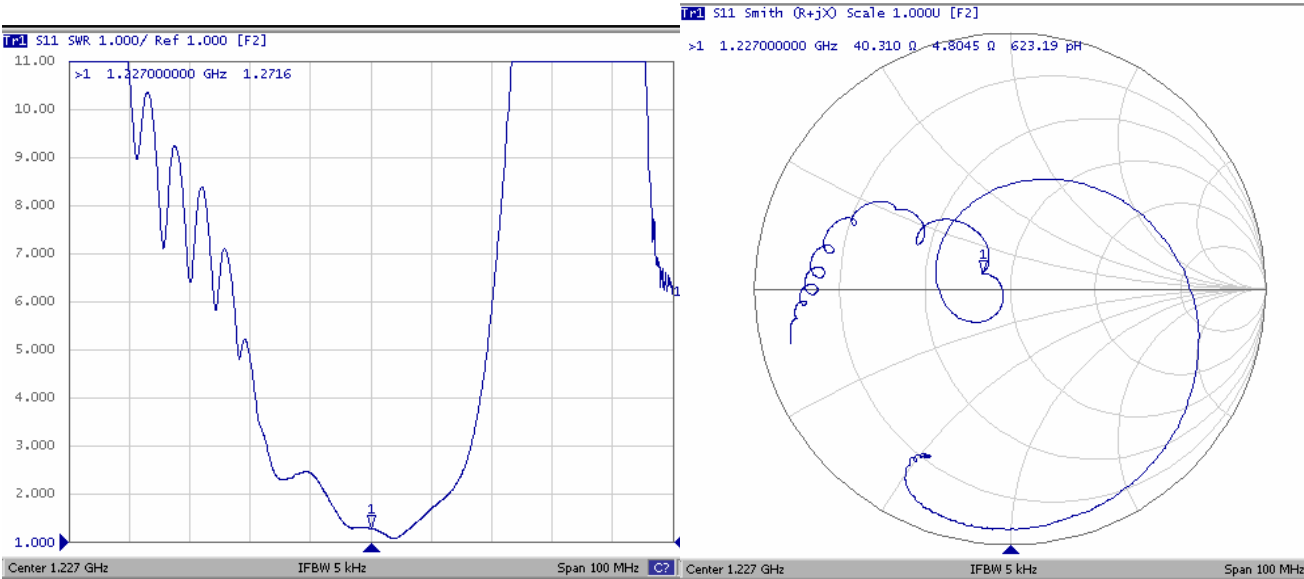


### 2. Narrow-band response (span: 100MHz)

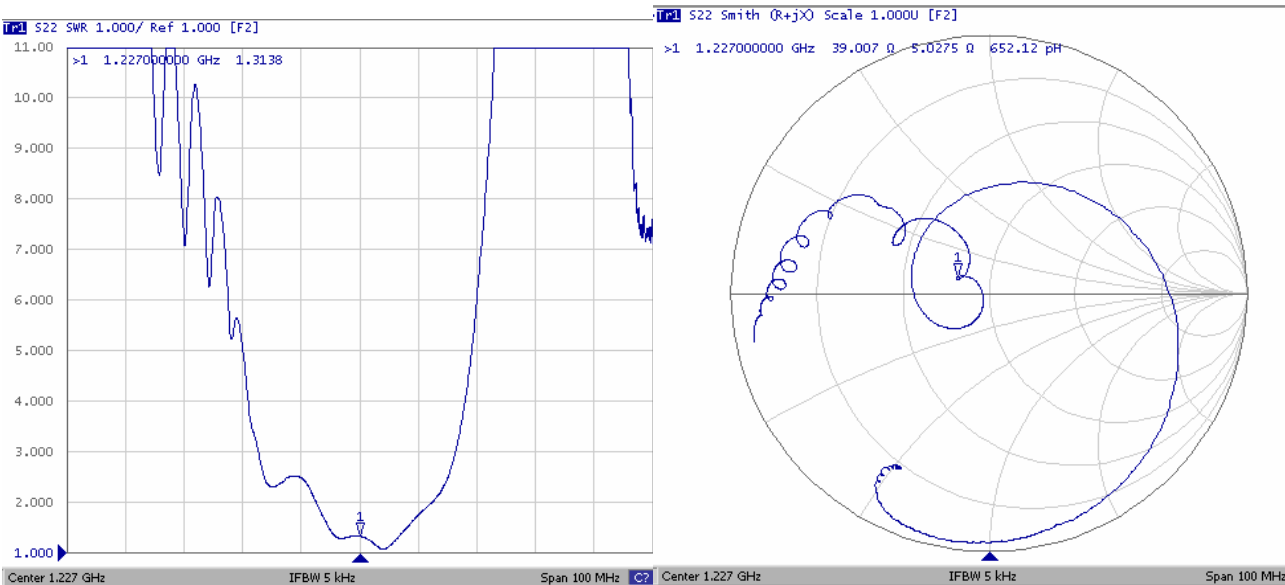


### 3. VSWR & Smith Chart

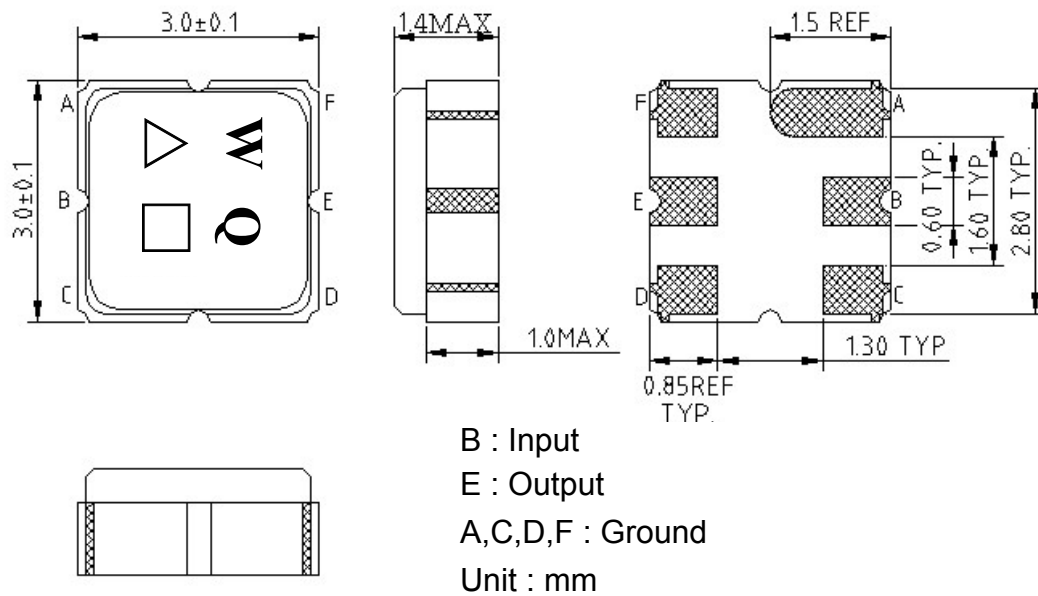
#### (1)S11



#### (2)S22

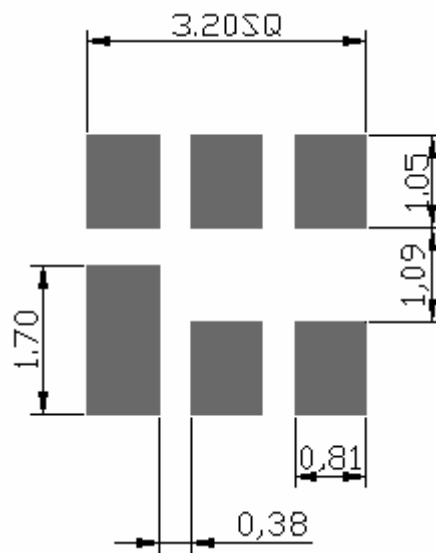


## E.OUTLINE DRAWING:



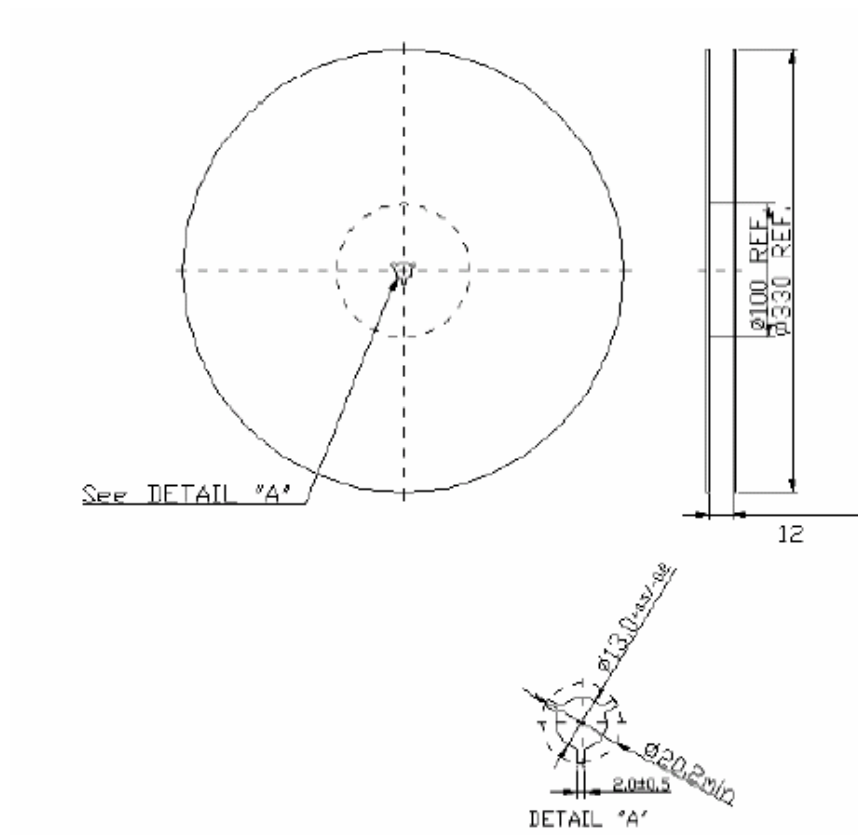
- △ : Year Code (2011->1, 2012->2 ..., 2019->9)  
□ : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

## F. PCB Footprint :

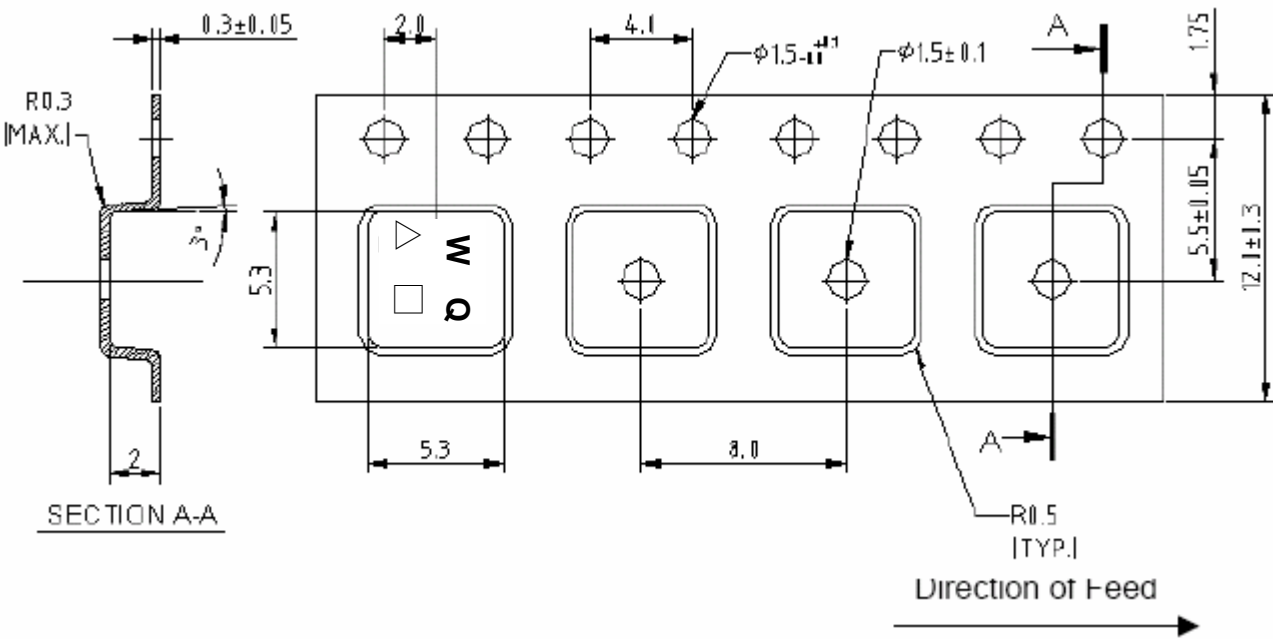


G. PACKING:

1. Reel dimension



2. Tape dimension



H. Reflow profile

