



# 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 879MHz 3.0 x 3.0 mm

TST Part No.: TA1097A

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

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

Checked by: Jun-Mao Chang

Approved by: Andrew Lee

Date: 09. 02. 2011

- Customer signed back is required before TST can proceed with sample build and receive orders.
- Orders received without customer signed back will be regarded as agreement on the specifications.
- 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 879MHz

MODEL NO.:TA1097A

REV. NO.:1

### A. MAXIMUM RATING:

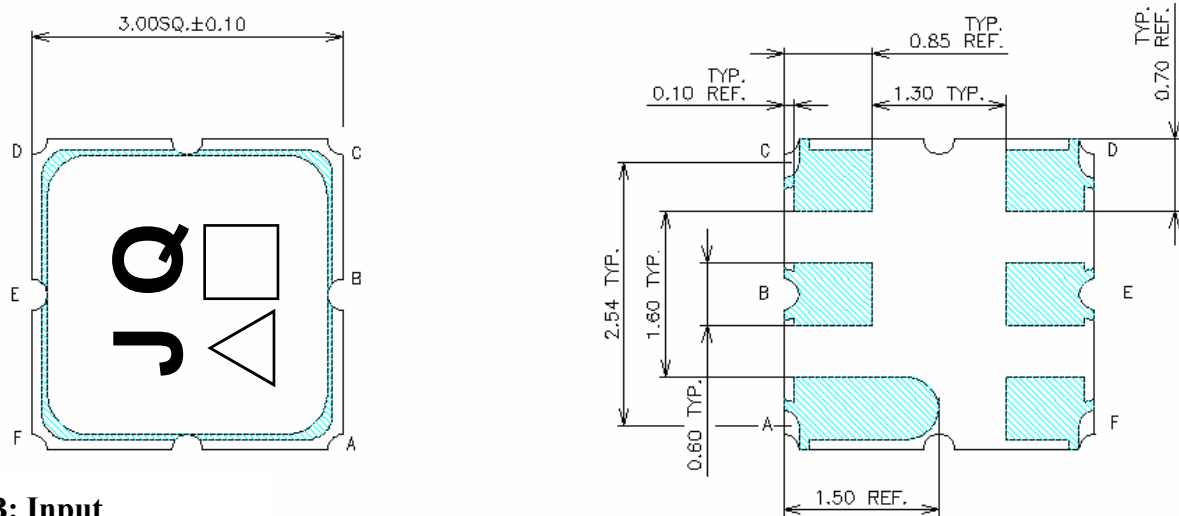
1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +95°C
4. Storage Temperature: -40°C to +95°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

| Item                                    | Unit     | Min | Typical | Max |
|-----------------------------------------|----------|-----|---------|-----|
| Center Frequency Fc                     | MHz      |     | 879     |     |
| Insertion Loss (864~894 MHz) IL         | dB       | --  | 2.5     | 4   |
| Amplitude Ripple (864~894 MHz)          | dB       | --  | 0.8     | 2   |
| Input/Output Return Loss (864~894 MHz)  | ns       | --  | 9       | 8   |
| Attenuation (Reference level from 0 dB) |          |     |         |     |
| 10 ~ 840 MHz                            | dB       | 40  | 44      | --  |
| 920 ~ 1000 MHz                          | dB       | 30  | 36      | --  |
| 1000 ~ 2600 MHz                         | dB       | 25  | 34      | --  |
| Input / Output Impedance                | $\Omega$ | 50  |         |     |

### C. OUTLINE DRAWING:



**B: Input**

**E: Output**

**A,C,D,F: Ground**

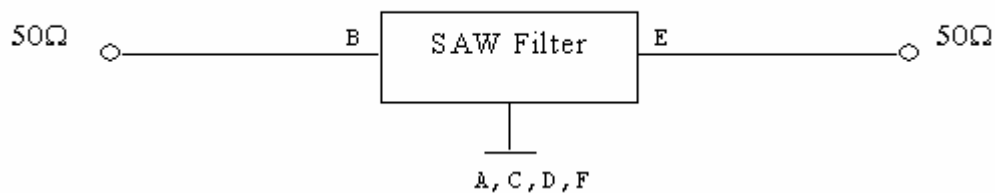
**Dimension: mm**

△: Year (年碼, 2011 年: 1, 2012 年: 2, ...2019 年: 9)

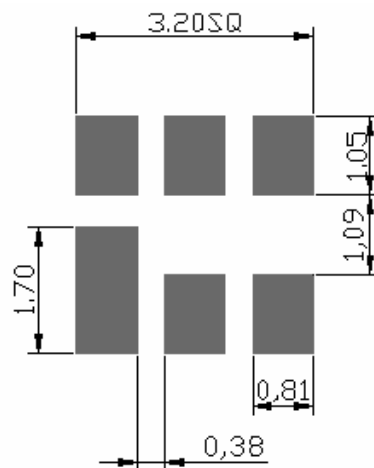
□: Week (週碼, A~Z : week01~week26; a~z: week27~week52)

### D. MEASUREMENT CIRCUIT:

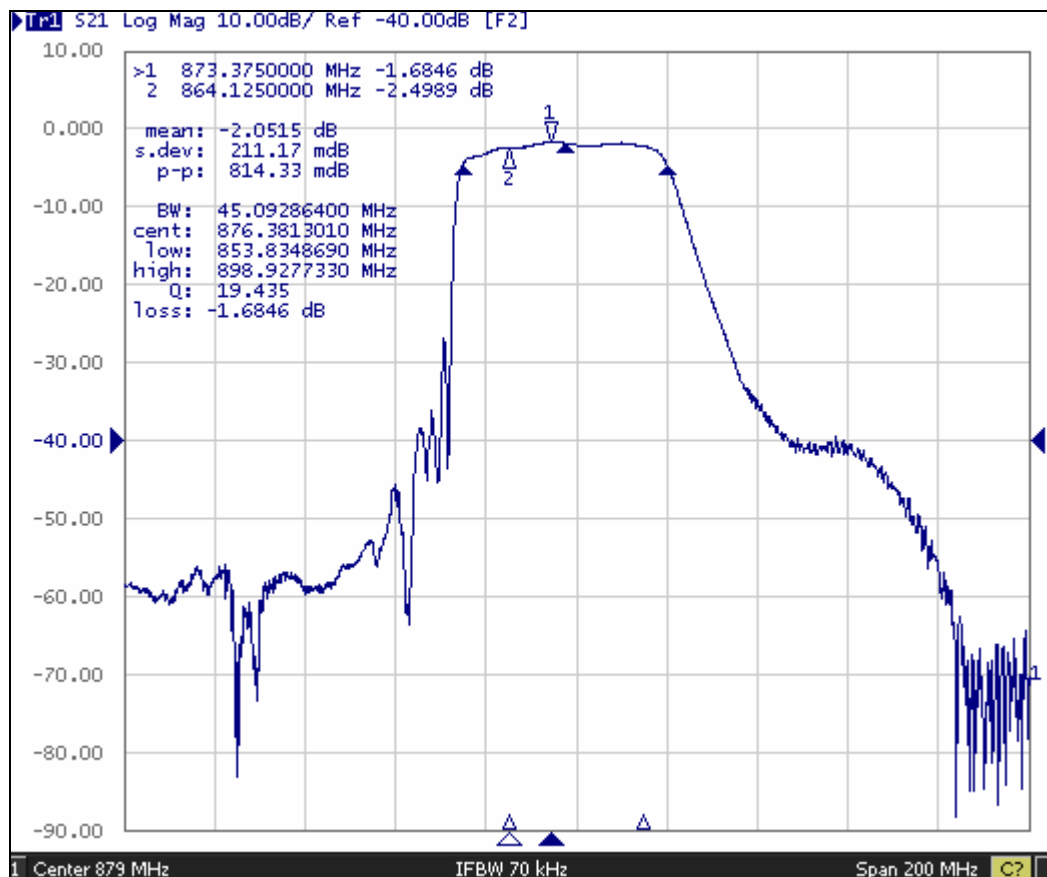
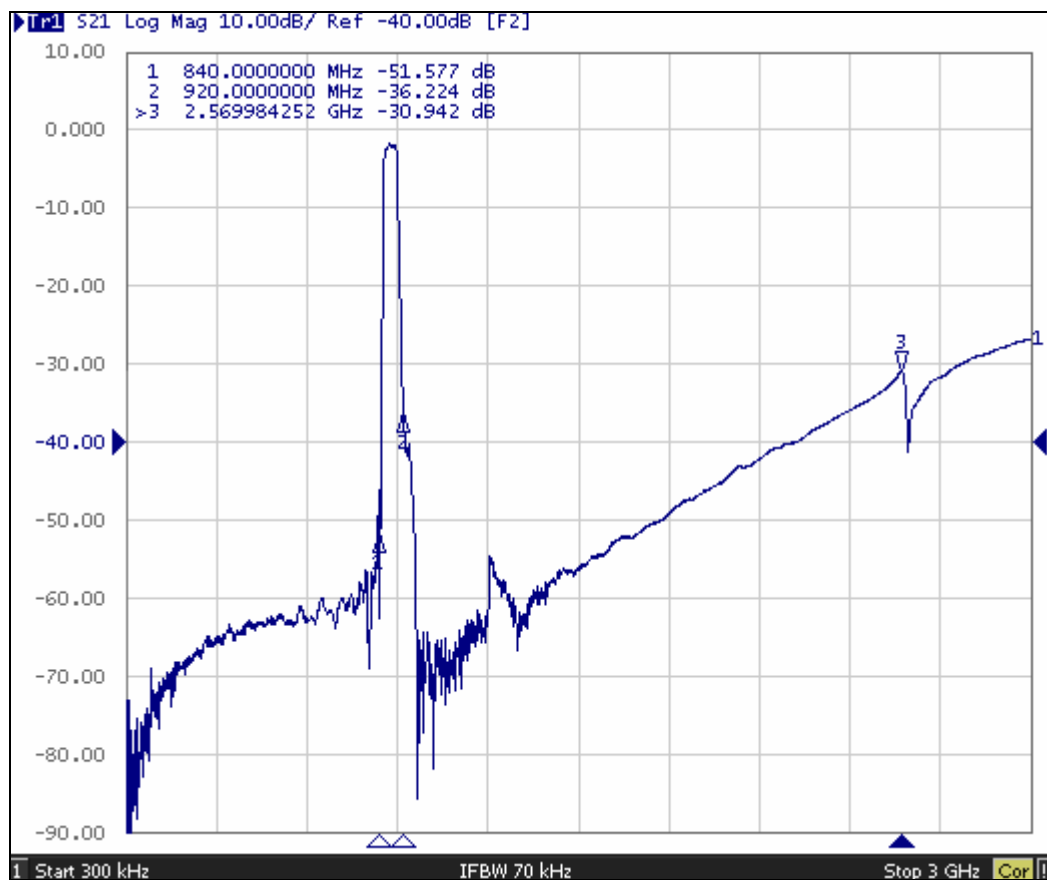
HP Network analyzer



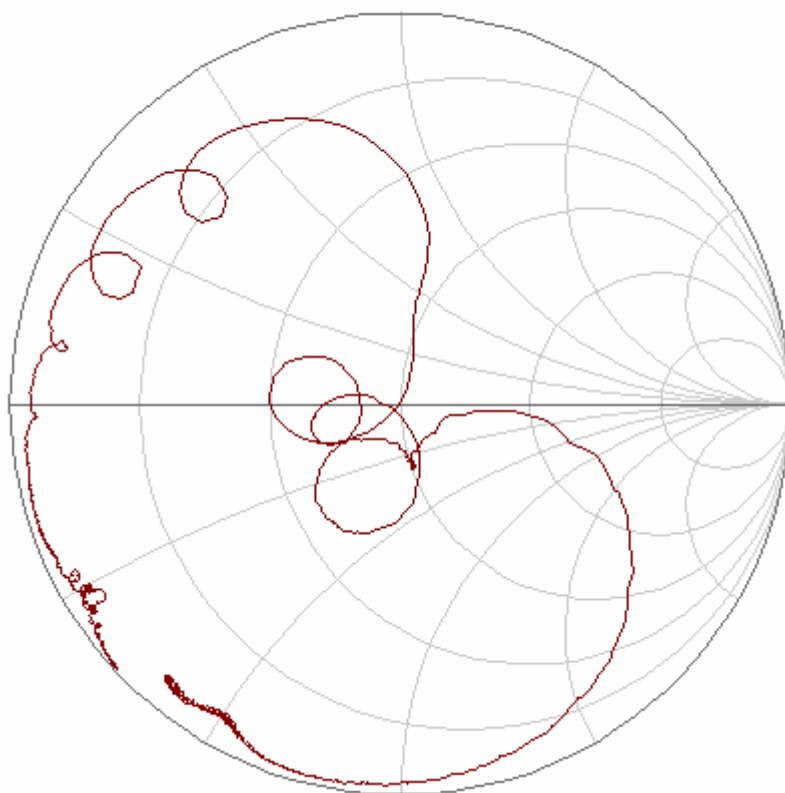
### E. PCB FOOTPRINT:



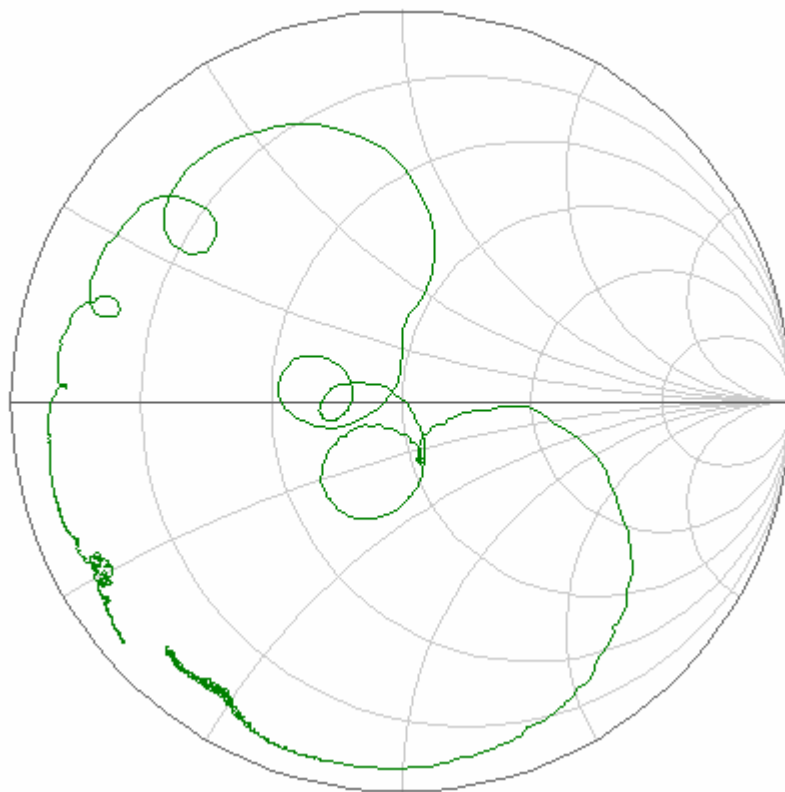
## F. FREQUENCY CHARACTERISTICS : (Demo Board)

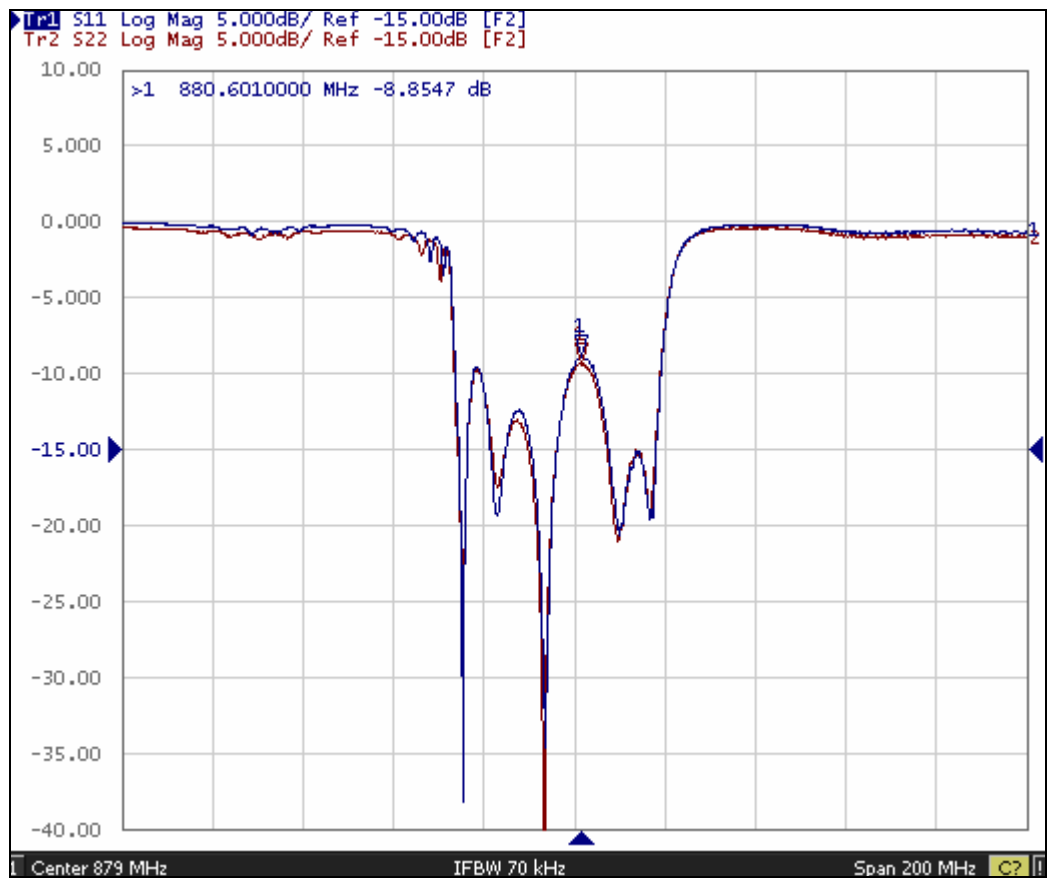


▶ **Tr2** S11 Smith (R+jX) Scale 1.000U [F2]



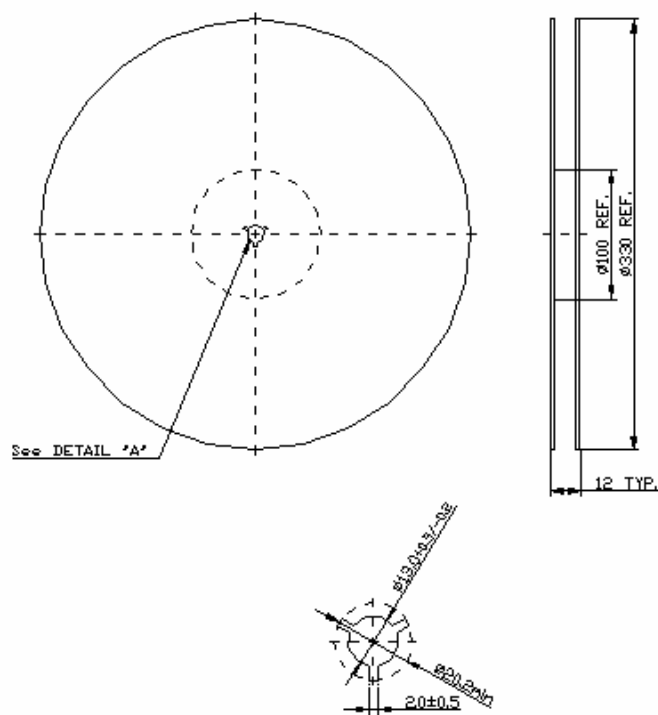
▶ **Tr3** S22 Smith (R+jX) Scale 1.000U [F2]



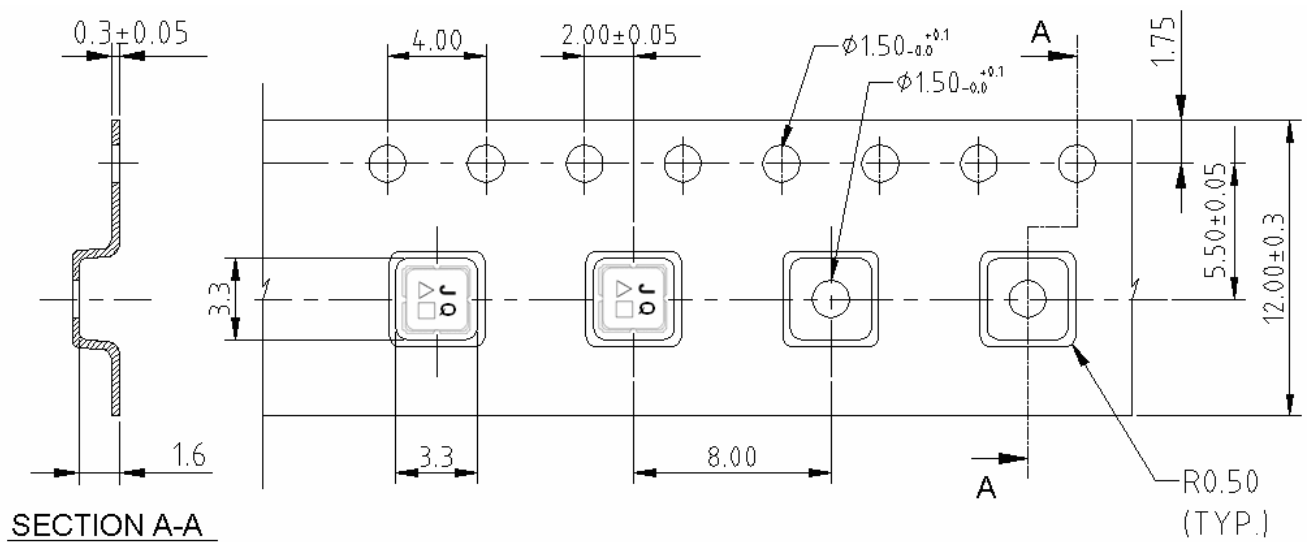


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



#### H. RECOMMENDED REFLOW PROFILE:

