



# 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: SAW Filter 1815 MHz SMD 3.0X3.0mm (BW=30MHz)

TST Parts No.: TA1169A

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

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

Checked by: \_\_\_\_\_ Andy Yu *Andy Yu*

Approval by: \_\_\_\_\_ Francis Chen *1815 2*

Date: \_\_\_\_\_ 1, 26, 20010

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 1815 MHz

MODEL NO.:TA1169A

REV. NO.:1.0

### A. MAXIMUM RATING:

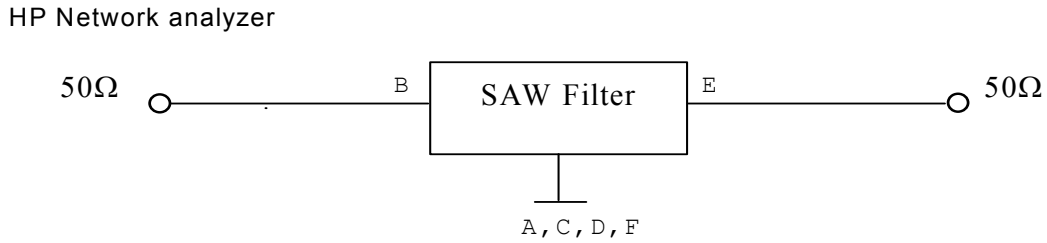
1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

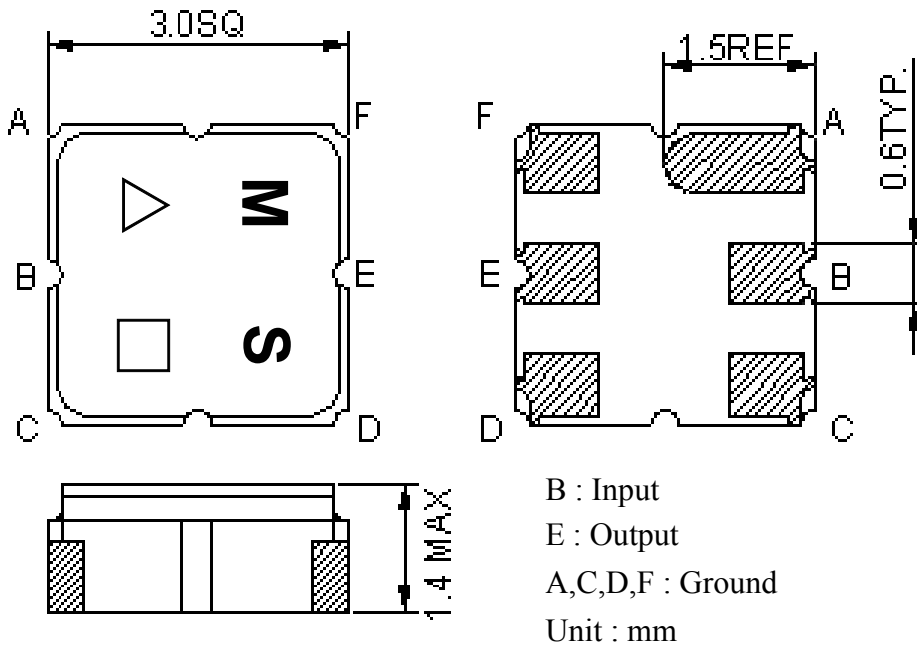
### B. ELECTRICAL CHARACTERISTICS:

| Item  | Unit | Min. | Type. | Max. | Note |
|---|------|------|-------|------|------|
| <b>Center Frequency</b> <b>Fc</b>                 | MHz  | -    | 1815  | -    | -    |
| <b>Insertion Loss</b> (1800 ~ 1830 MHz) <b>IL</b> | dB   | -    | 1.7   | 2.8  | -    |
| <b>Amplitude Ripple</b> (1800 ~ 1830 MHz)         | dB   | -    | 0.6   | 1.2  | -    |
| <b>VSWR</b> (1800 ~ 1830 MHz)                     |      | -    | 1.5   | 2.0  | -    |
| <b>Attenuation</b> (Reference level from 0 dB)    |      |      |       |      |      |
| 100 ~ 1000      MHz                               | dB   | 30   | 36    | -    | -    |
| 1350 ~ 1450      MHz                              | dB   | 33   | 38    | -    | -    |
| 1500 ~ 1650      MHz                              | dB   | 35   | 40    | -    | -    |
| 2015 ~ 2120      MHz                              | dB   | 40   | 49    | -    | -    |
| 2445 ~ 2580      MHz                              | dB   | 42   | 44    | -    | -    |
| 3000 ~ 6000      MHz                              | dB   | 17   | 23    |      |      |

**C. MEASUREMENT CIRCUIT:**



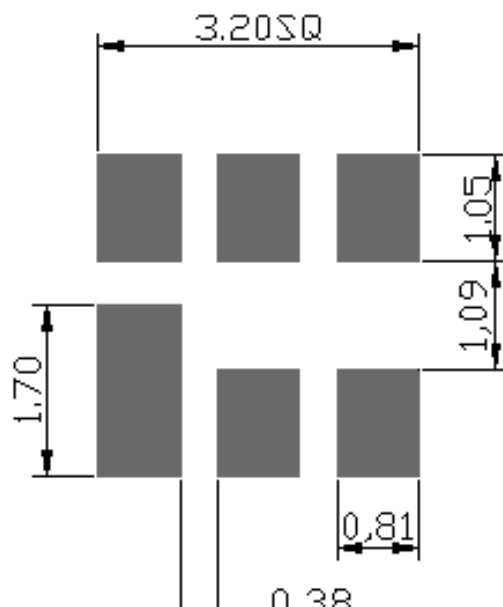
**D. OUTLINE DRAWING:**



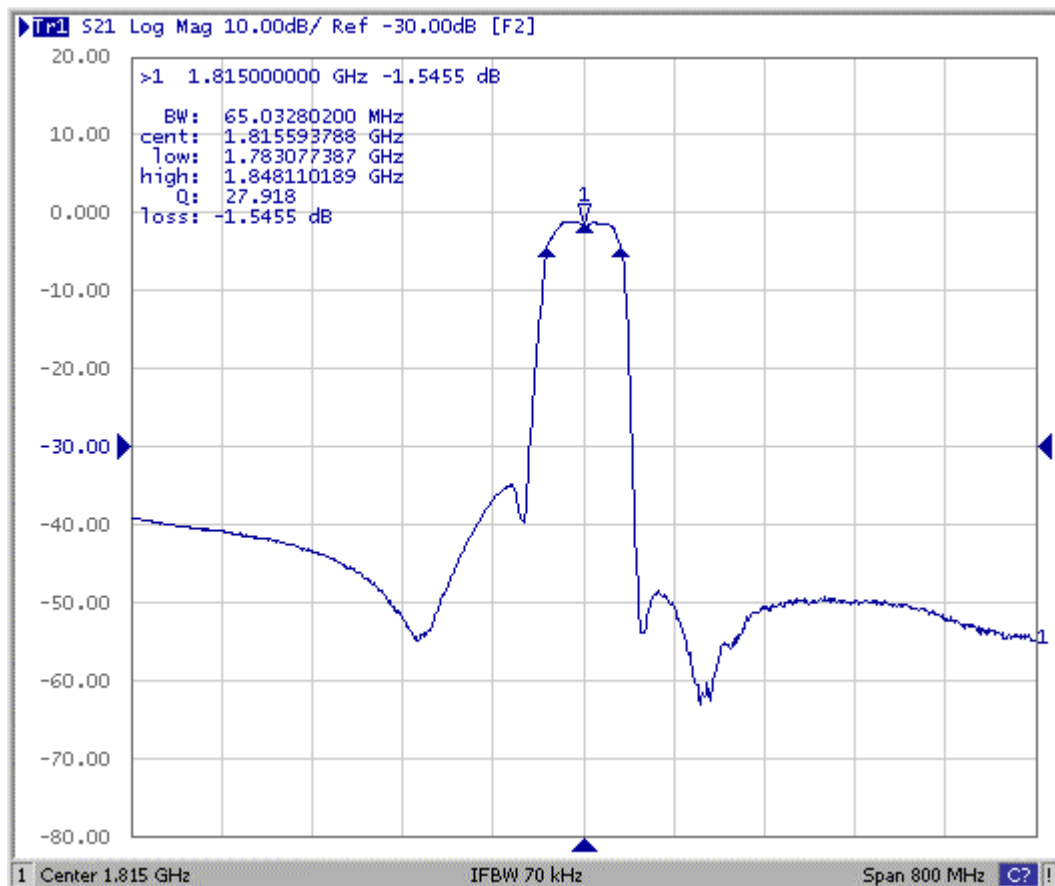
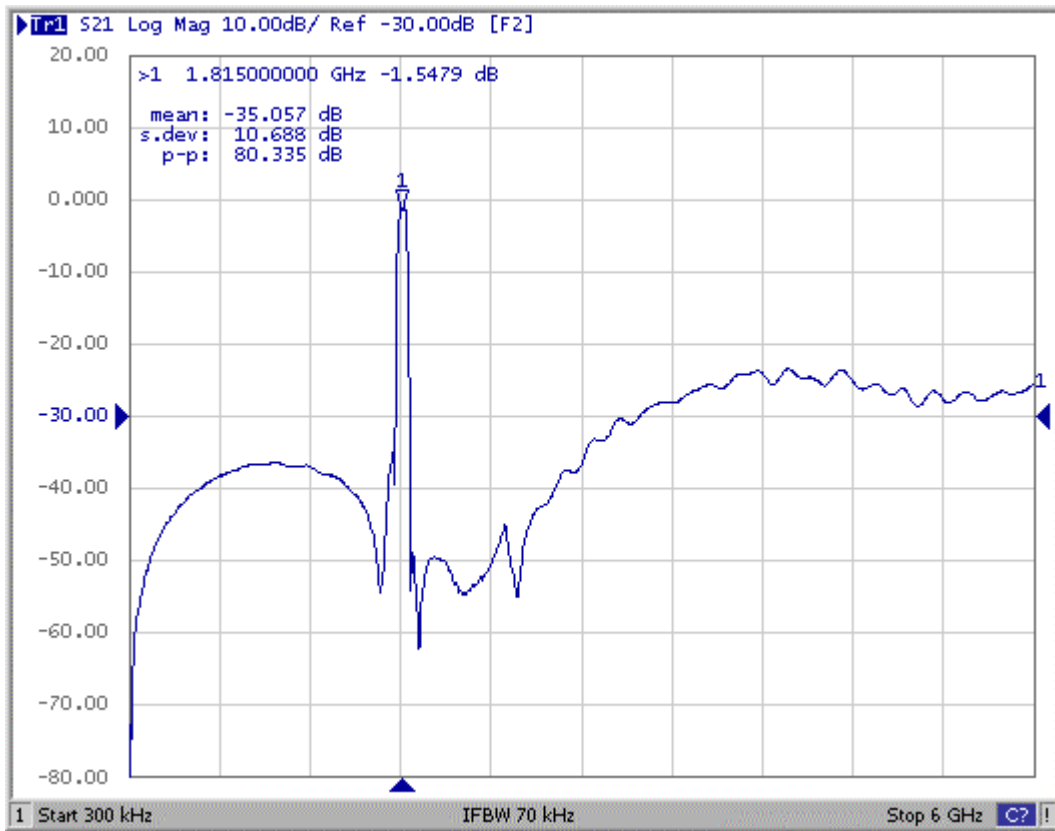
△ : Year Code (2006->6, ..., 2009->9)

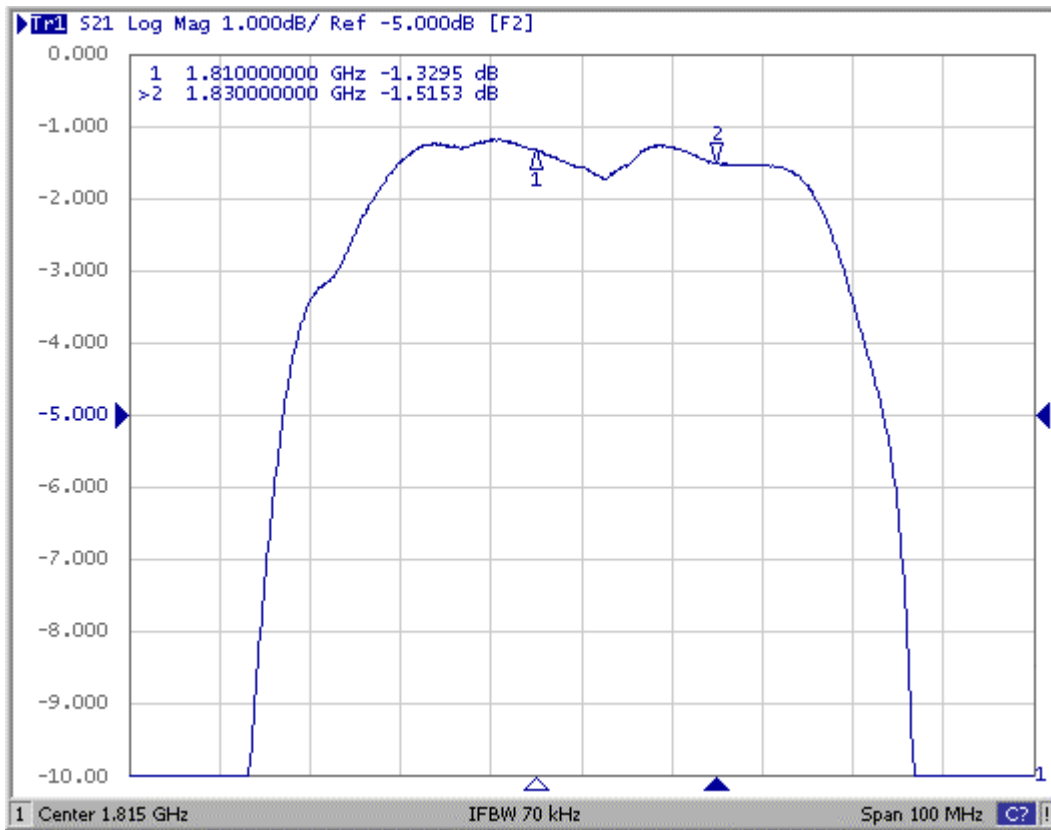
□ : Date Code (Follow the table from planner each year)

**E. PCB Footprint:**

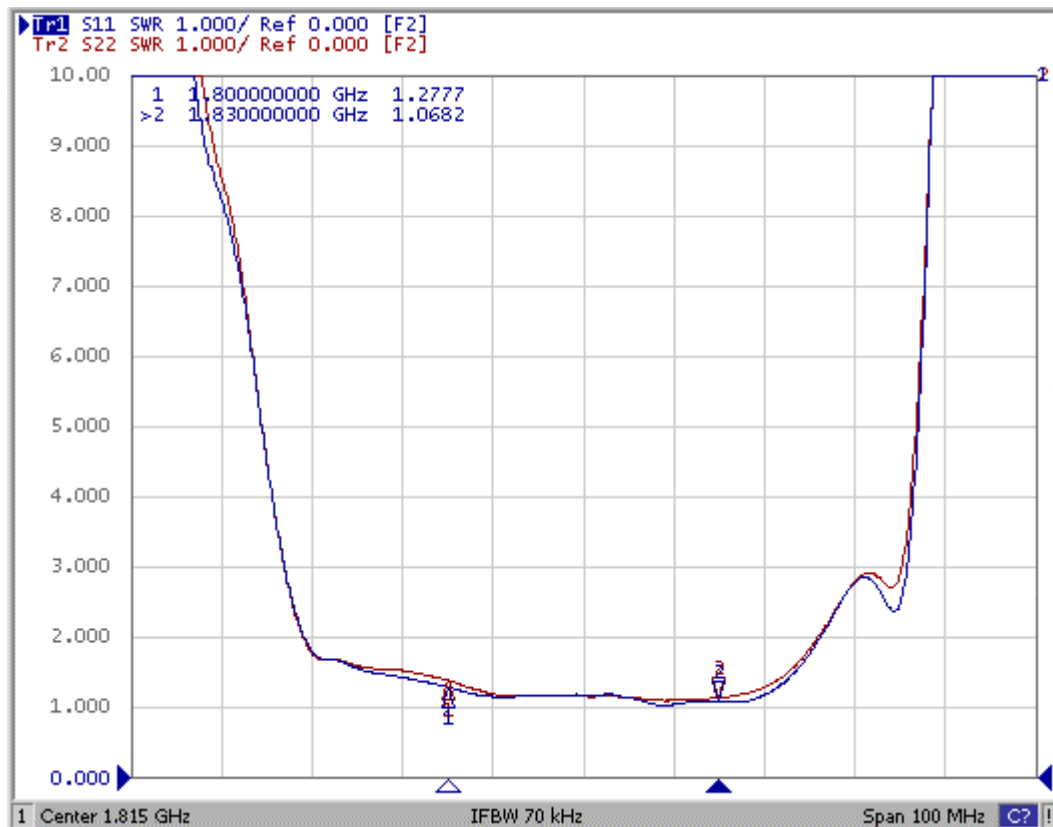


## F. Frequency Characteristics :





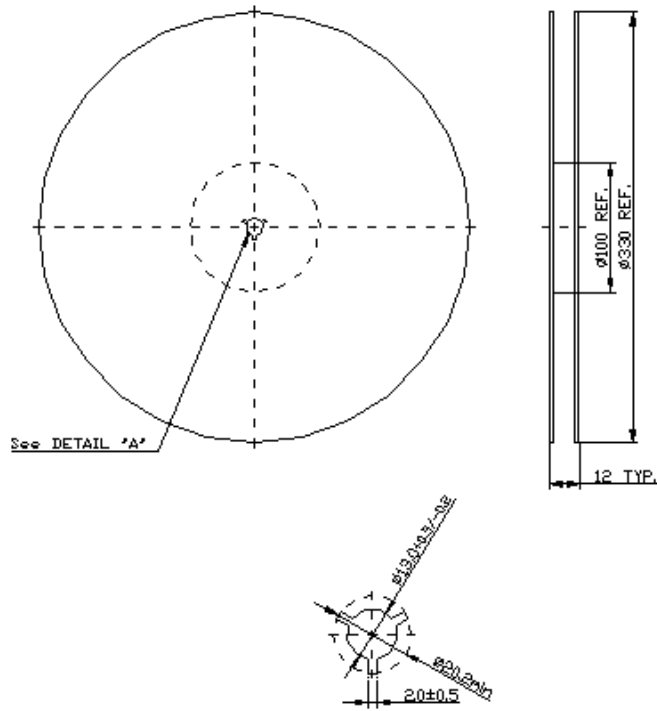
**Reflection Functions :**



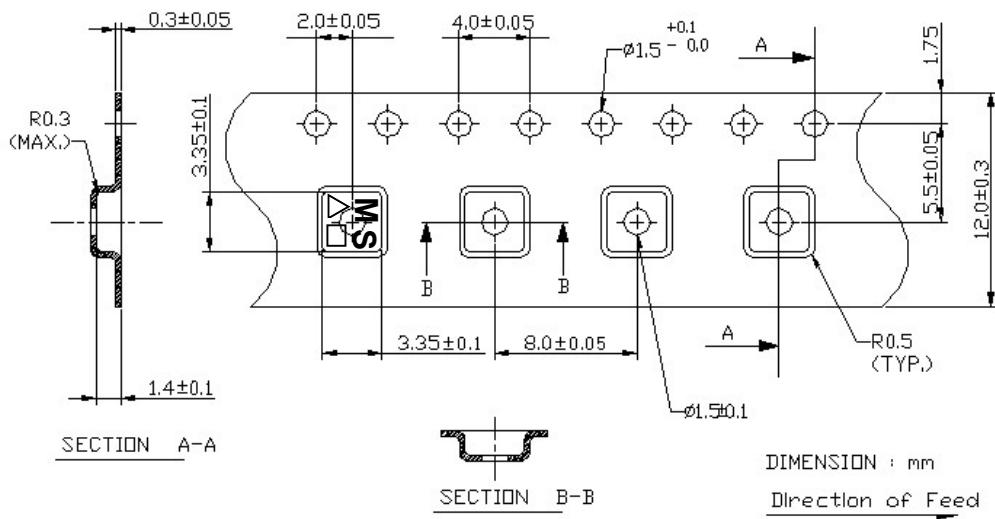
**G. PACKING:**

**1. REEL DIMENSION**

(Reel Count : 7"=1000 ; 13"=3000 )



**2.TAPE DIMENSION**



## H. RECOMMENDED REFLOW PROFILE :

