



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 Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 1680 MHz SMD 3.0X3.0 mm

TST Part No.: TA1078A

Customer Part No.: _____

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

Checked by: _____ Bob Chau *[Signature]*

Approved by: _____ Francis Chen *[Signature]*

Date: _____ 8, 25, 2009

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 1680 MHz

MODEL NO.:TA1078A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

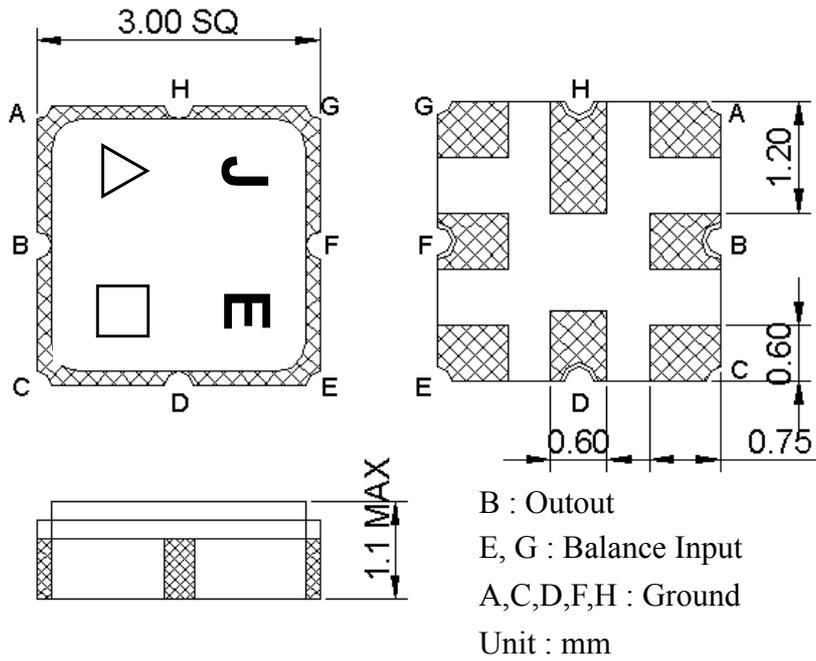
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (balanced) : $Z_s = 200 \Omega // 18nH$

Terminating load impedance (single ended) : $Z_L = 50 \Omega$

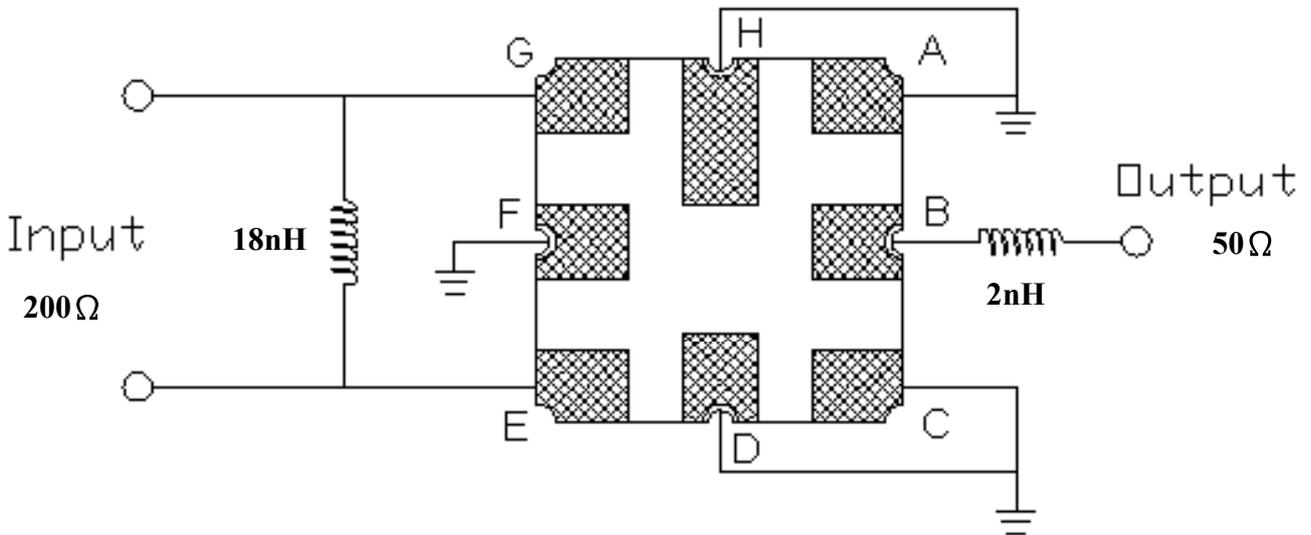
| Item | Unit | Min. | Typ. | Max. | Note |
|--|------|------|------|------|------|
| Center Frequency Fc | MHz | - | 1680 | - | - |
| Bandwidth at -2 dB | MHz | 60 | 78 | - | - |
| Insertion Loss in 1650~1710 MHz | dB | - | 3.1 | 5 | - |
| Amplitude ripple (1650 MHz ~ 1710 MHz) | dB | - | 1 | 2 | - |
| I/O VSWR (1650 MHz ~ 1710 MHz) | | - | 1.8 | 2.5 | - |
| Attenuation (reference level from 0 dB) | | | | | |
| 50 ~ 1580 MHz | dB | 42 | 60 | - | - |
| 1800 ~ 3000 MHz | dB | 42 | 49 | - | - |
| 3000 ~ 4000 MHz | dB | 35 | 43 | - | - |
| 4000 ~ 6000 MHz | dB | 18 | 30 | - | - |

C.OUTLINE DRAWING:

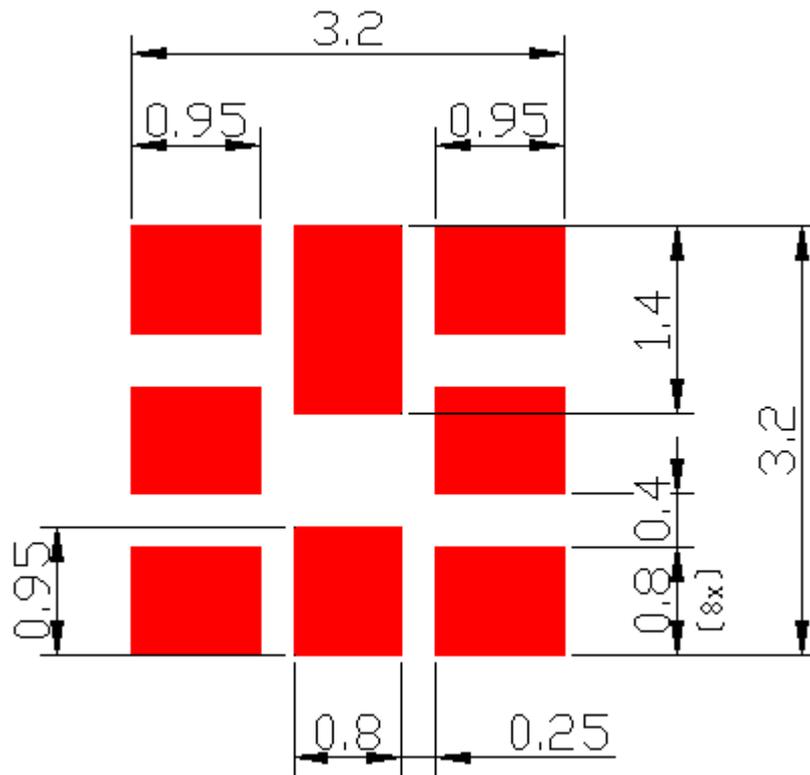


- △ : Year Code (2006->6, ..., 2009->9)
- : Date Code (W01->A,...W26->Z,...W52->z)

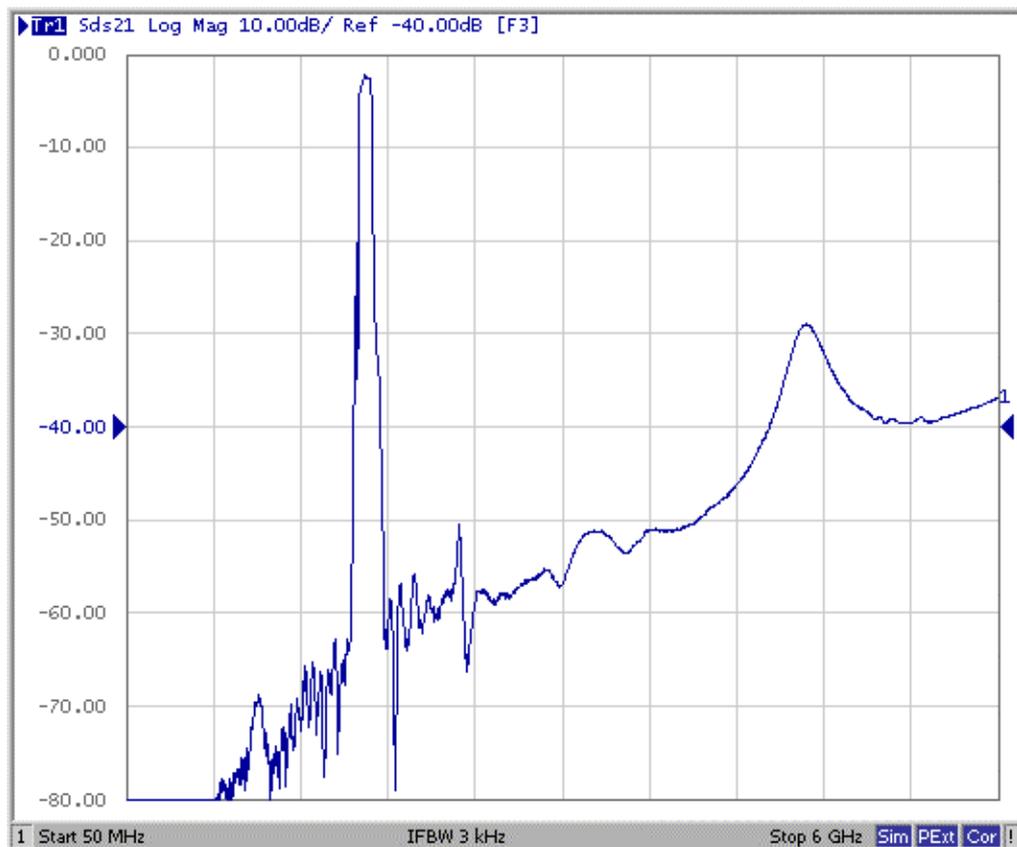
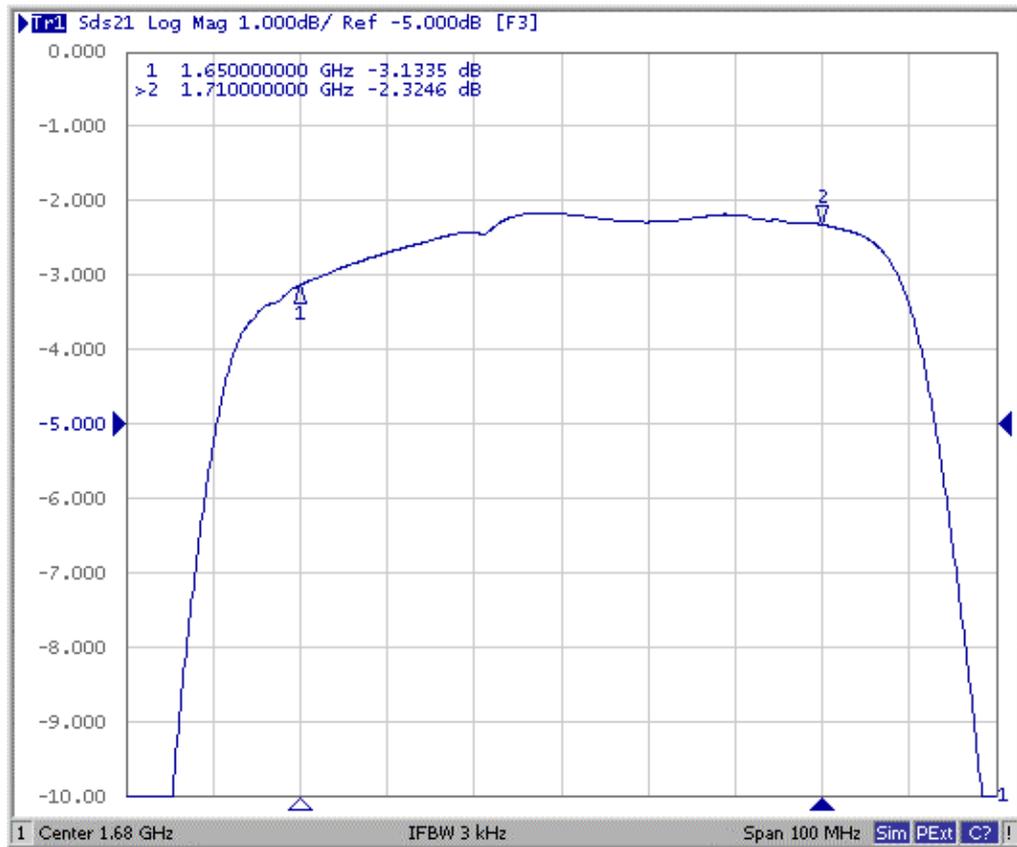
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

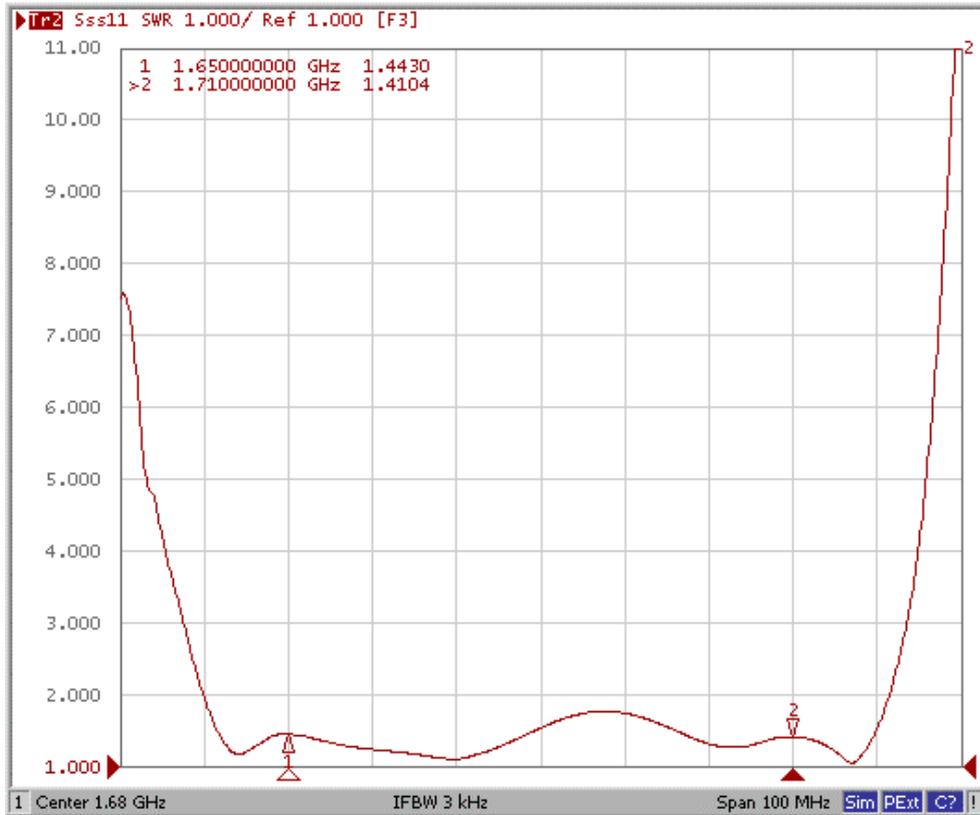


F. Frequency Characteristics :

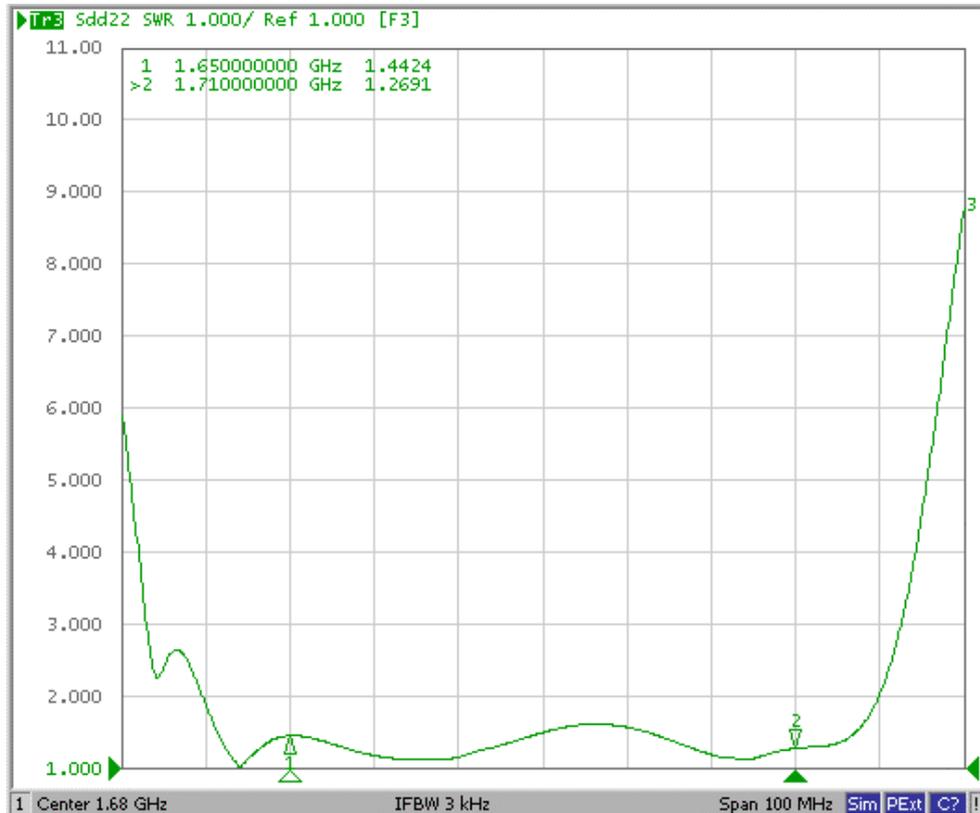


Reflection Functions :

S11



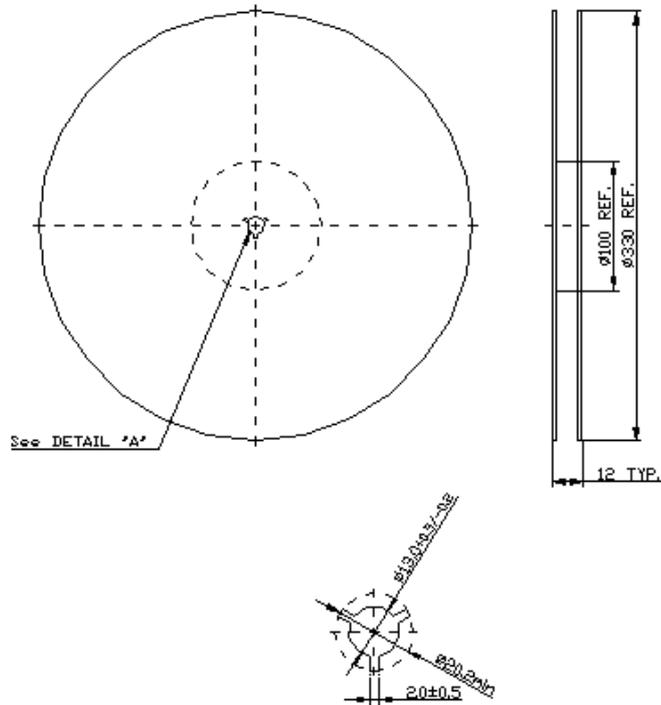
S22



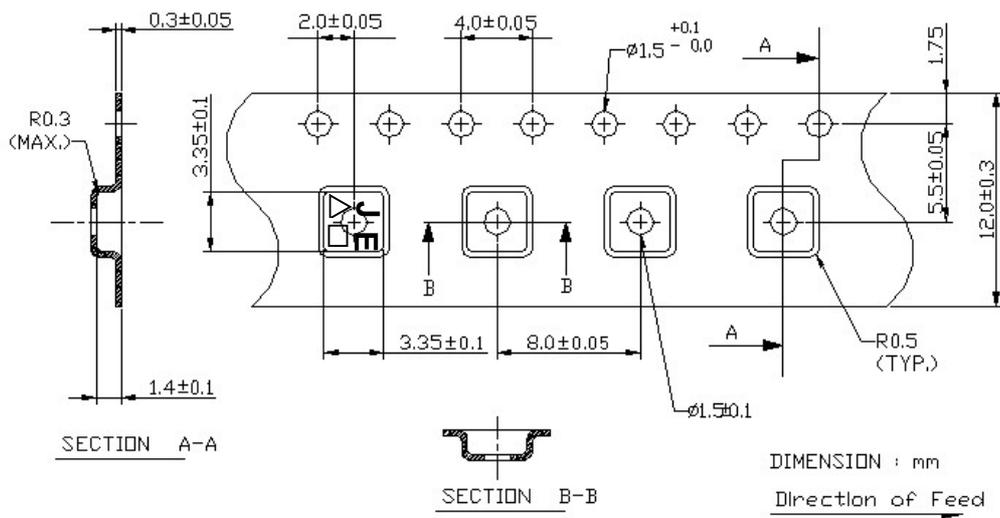
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

