



# 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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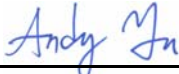
## Product Specifications Approval Sheet

Product Name: SAW Filter 1590MHz (BW 59MHz) SMD 3.0x3.0 mm

TST Parts No.: TA1768A

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

|                     |
|---------------------|
| Company: _____      |
| Division: _____     |
| Approved by : _____ |
| Date: _____         |

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

Approval by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 2014/07/03

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 1590MHz(BW 59MHz) SMD 3.0x3.0 mm

MODEL NO.:TA1768A

REV. NO.:1.0

### A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C

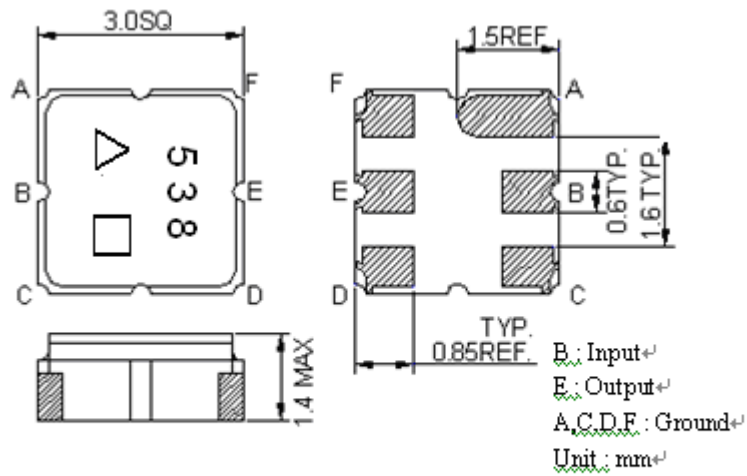
RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

### B. ELECTRICAL CHARACTERISTICS:

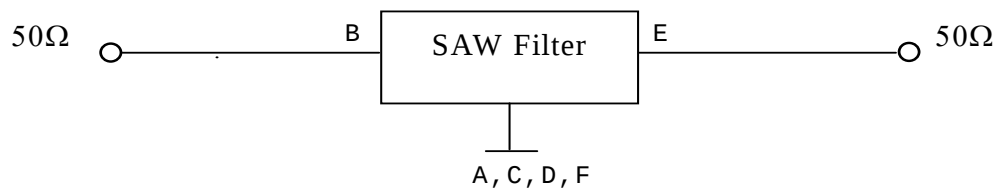
| Item                   | Unit | Min.        | Type. | Max. | Note |
|------------------------|------|-------------|-------|------|------|
| Center Frequency Fc    | MHz  | -           | 1590  | -    | -    |
| Min. Insertion Loss IL | dB   | -           | 2.3   | 4    | -    |
| Amplitude ripple       | dB   | -           | 1     | 1.8  | -    |
| Bandwidth @ -1.2dB     | MHz  | 55          | 59    | 65   | -    |
| Bandwidth @ -20dB      | MHz  | -           | 97    | 125  | -    |
| Attenuation            |      |             |       |      |      |
| DC ~ 1522 MHz          | dB   | 40          | 55    | -    | -    |
| 1675 ~ 3000 MHz        | dB   | 40          | 43    | -    | -    |
| Package size           | mm   | SMD 3.0x3.0 |       |      |      |

### C.OUTLINE DRAWING:



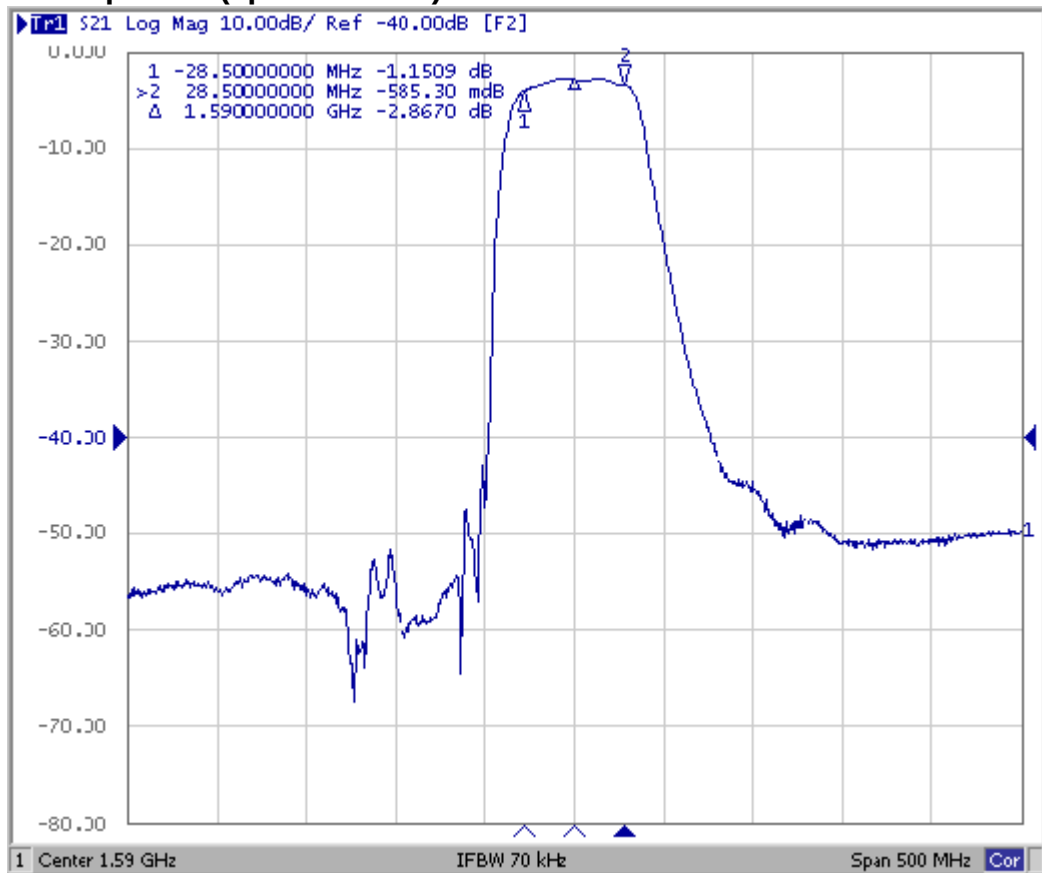
### D. MEASUREMENT CIRCUIT:

HP Network analyzer

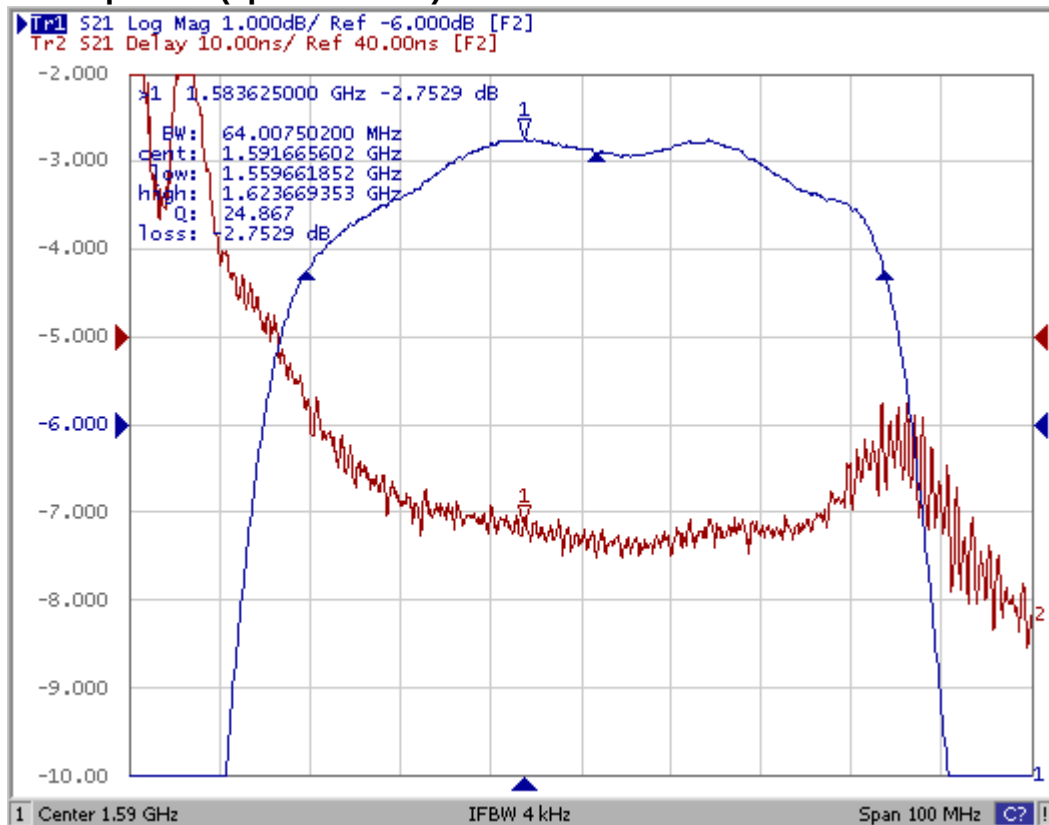


## E. Frequency Characteristics :

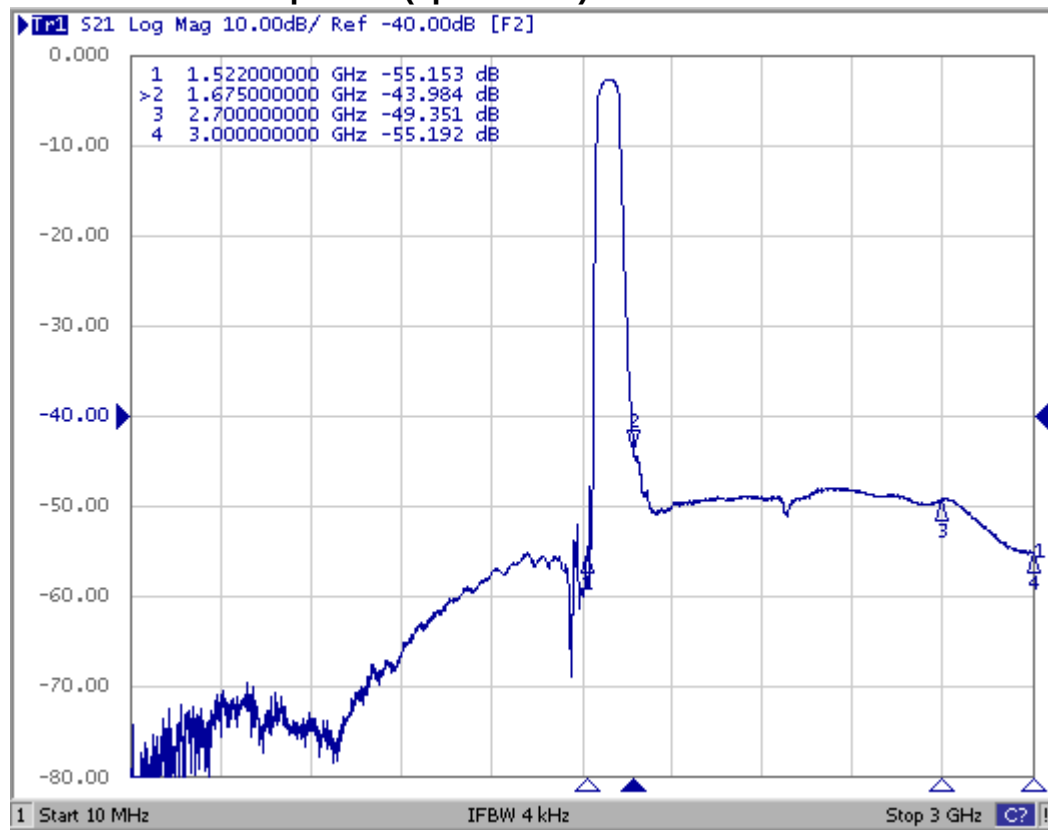
### S21 response: (span 500MHz)



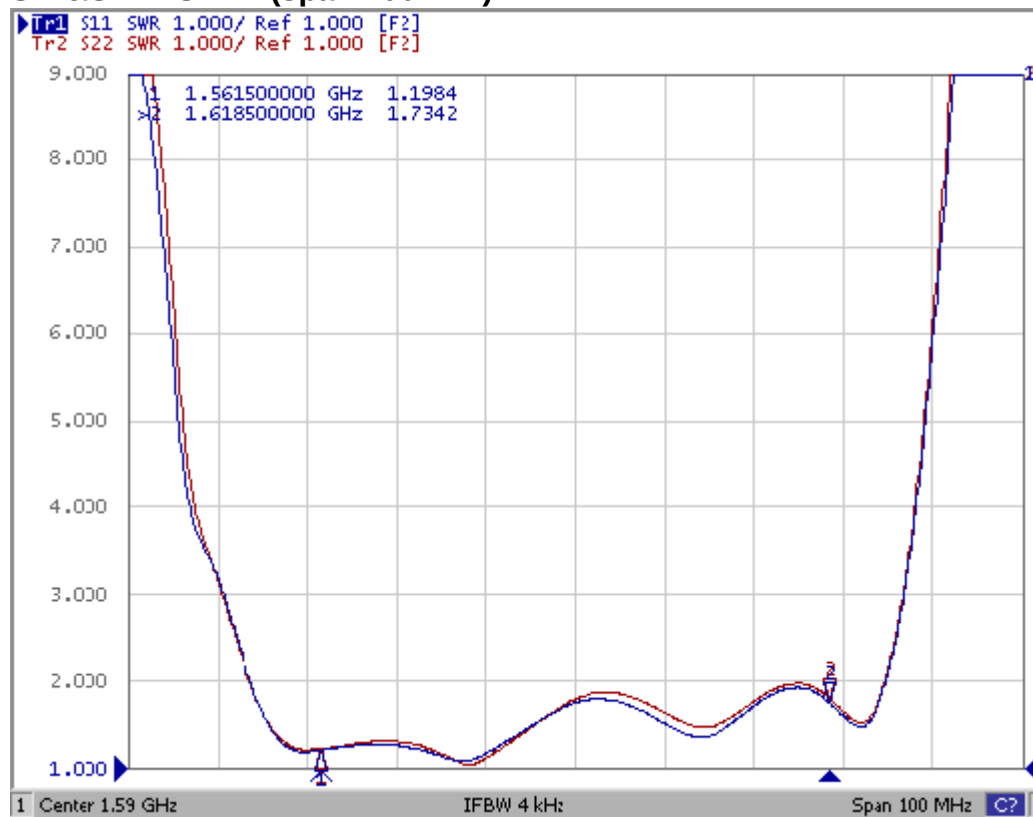
### S21 response: (span 100MHz)



## S21 wide band response: (span 3GHz)



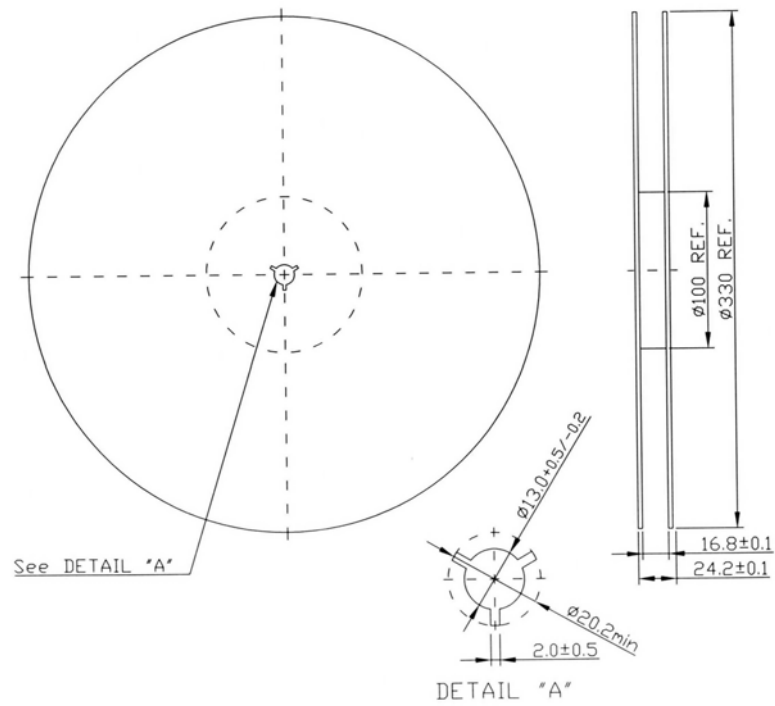
## S11&S22 VSWR: (span 100MHz)



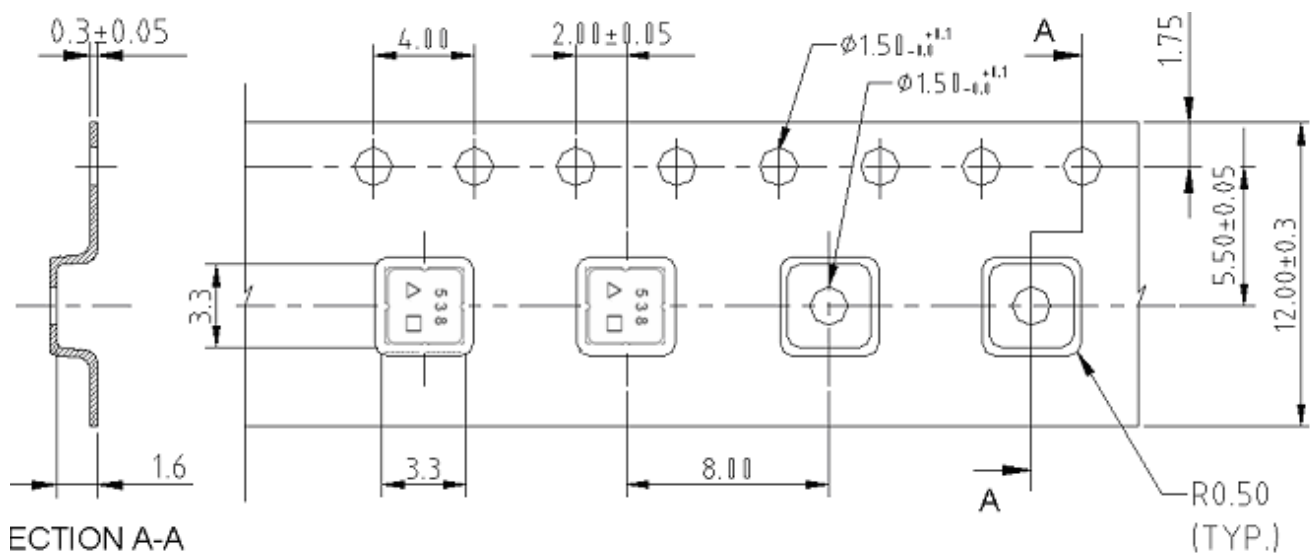
### F. PACKING:

## 1. REEL DIMENSION

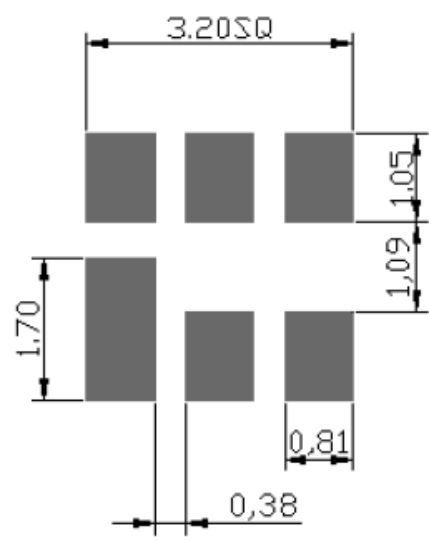
(Please refer to FR-75D10 for packing quantity)



## 2. TAPE DIMENSION



G. PCB Footprint:



H. RECOMMENDED REFLOW PROFILE :

