



# 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](mailto:tstsales@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Product Specifications Approval Sheet

Product Name: SAW Filter 1435MHz (BW 50MHz) SMD 3.0x3.0 mm

TST Parts No.:TA1654A

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

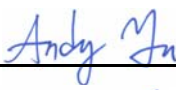
Customer signature required

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

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

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

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

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

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

Date:\_\_\_\_\_ 2013/12/13

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 1435MHz(BW 50MHz) SMD 3.0×3.0mm

MODEL NO.: TA1654A

REV. 1.0

### A. MAXIMUM RATING:

1. Input Power Level: 15 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

Electrostatic Sensitive Device (ESD)

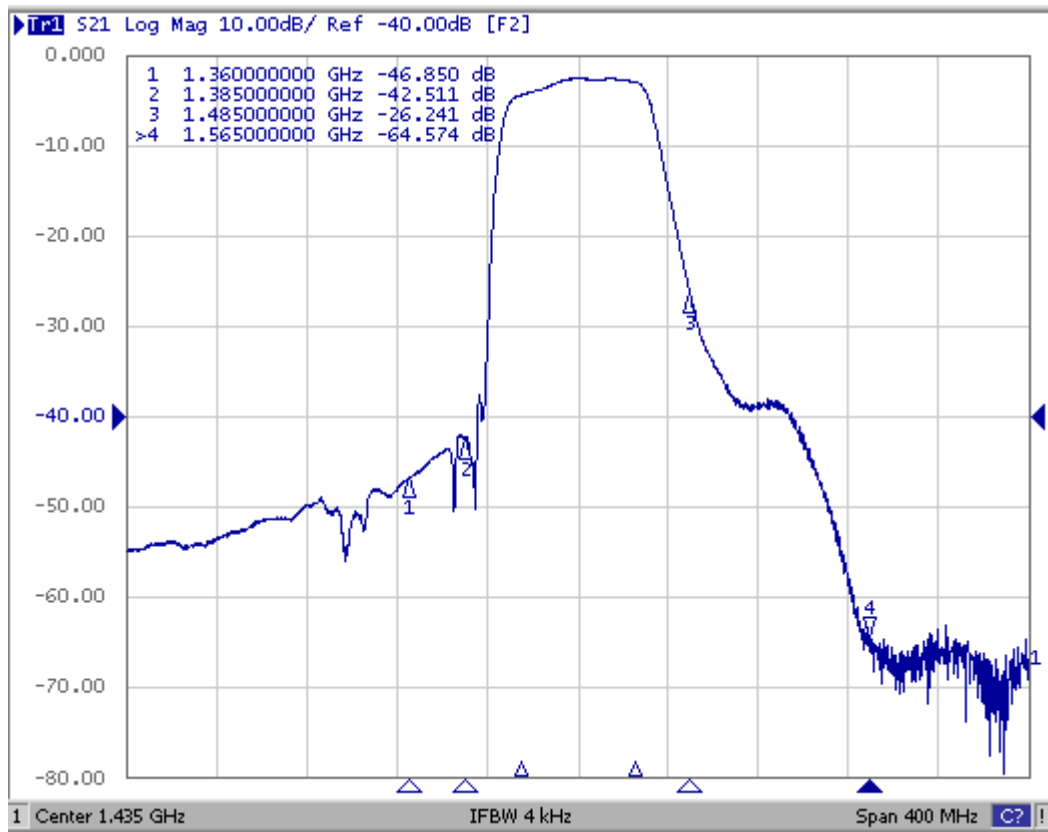
### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance :  $Z_s = 50 \Omega$   
 Terminating load impedance :  $Z_L = 50 \Omega$

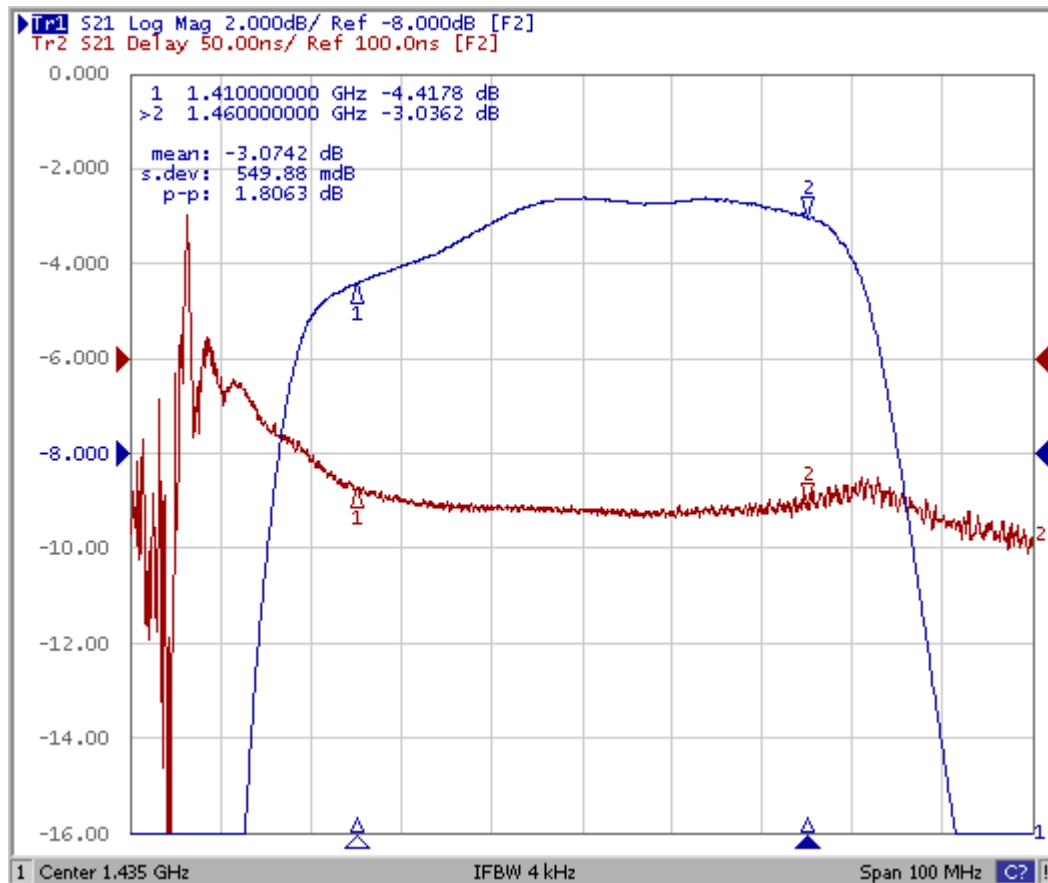
| Item                                            | Unit     | Min.        | Type. | Max. | Note |
|-------------------------------------------------|----------|-------------|-------|------|------|
| Center Frequency <b>Fc</b>                      | MHz      | -           | 1435  | -    | -    |
| Max. Insertion Loss (1410 ~ 1460 MHz) <b>IL</b> | dB       | -           | 4.2   | 5.0  | -    |
| Passband ripple (1410 ~ 1460 MHz)               | dB       | -           | 1.7   | 3.0  | -    |
| 2dB BW <b>BW</b>                                | MHz      | 50          | 57    | -    | -    |
| Group Delay Variation (1410 ~ 1460 MHz)         | nsec     |             | 10    | 15   |      |
| VSWR (1410 ~ 1460 MHz)                          |          |             | 1.6   | 2.4  |      |
| Source Impedance (single ended)                 | $\Omega$ | -           | 50    | -    | -    |
| Load Impedance (single ended)                   | $\Omega$ | -           | 50    | -    | -    |
| Attenuation                                     |          |             |       |      |      |
| D.C ~ 1360 MHz                                  | dB       | 40          | 46    | -    | -    |
| 1360 ~ 1385 MHz                                 | dB       | 20          | 42    | -    | -    |
| 1485 ~ 1565 MHz                                 | dB       | 18          | 26    | -    | -    |
| 1565 ~ 2900 MHz                                 | dB       | 40          | 43    | -    | -    |
| Package size                                    | mm       | SMD 3.0x3.0 |       |      |      |

### C. Frequency Characteristics :

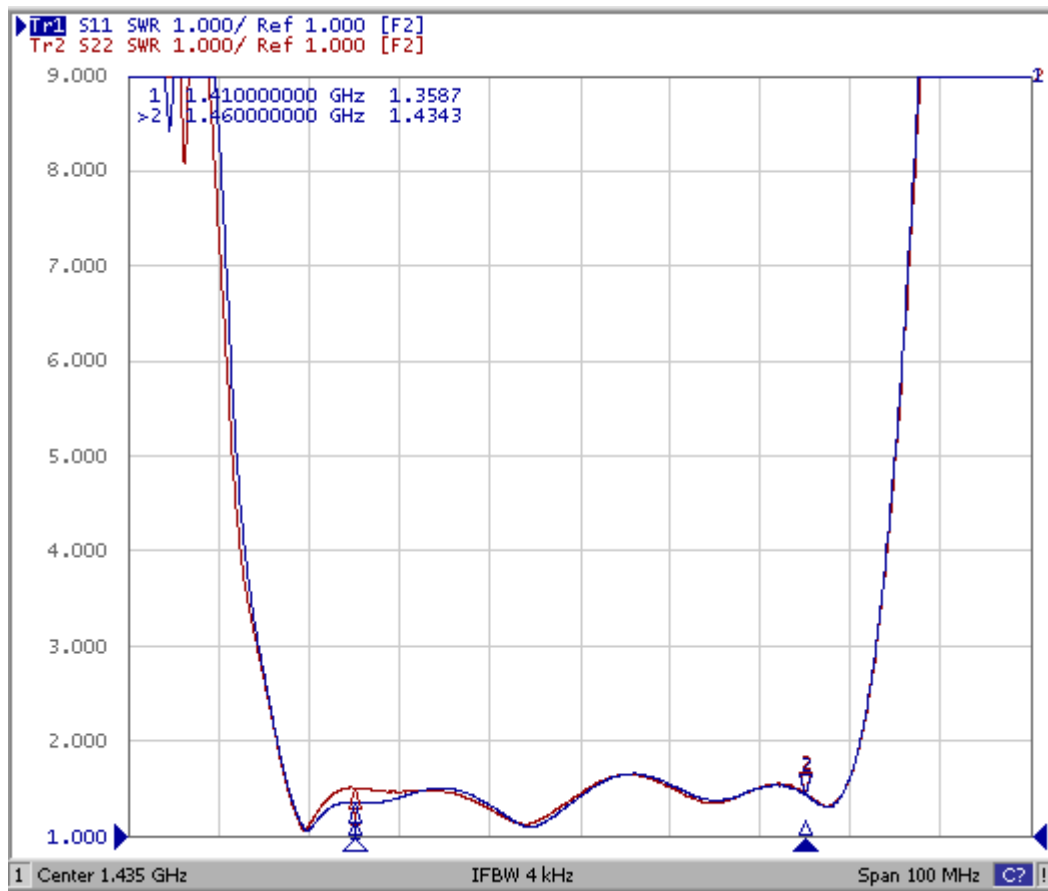
(1) S21 Response: (span 400MHz)



(2) Pass band Response:( span 120MHz)

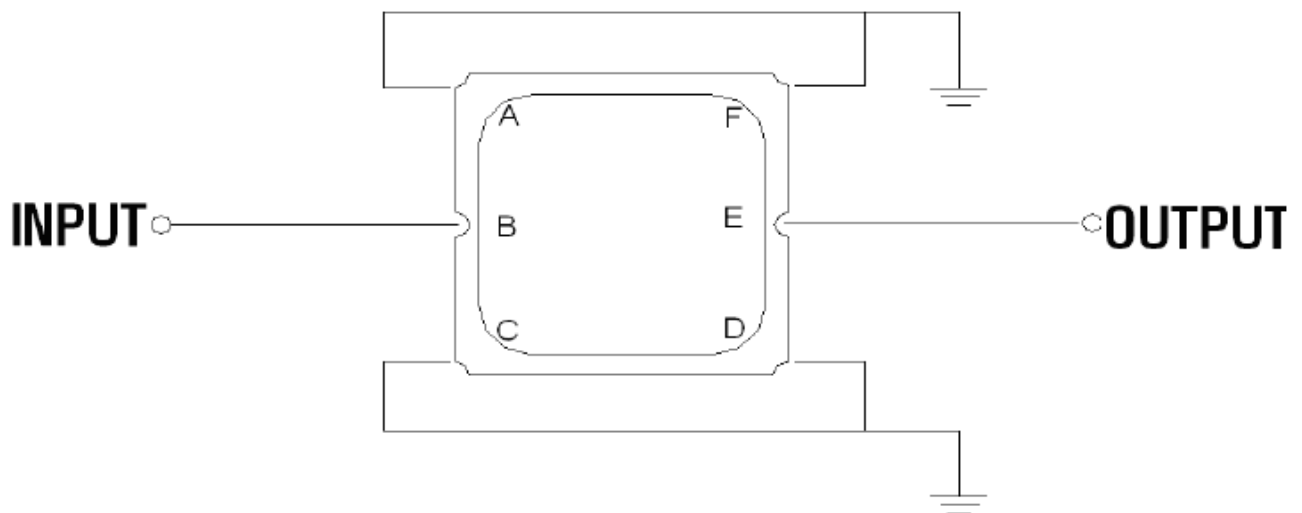


(3) S11 & S22 VSWR Response:( span 100MHz)

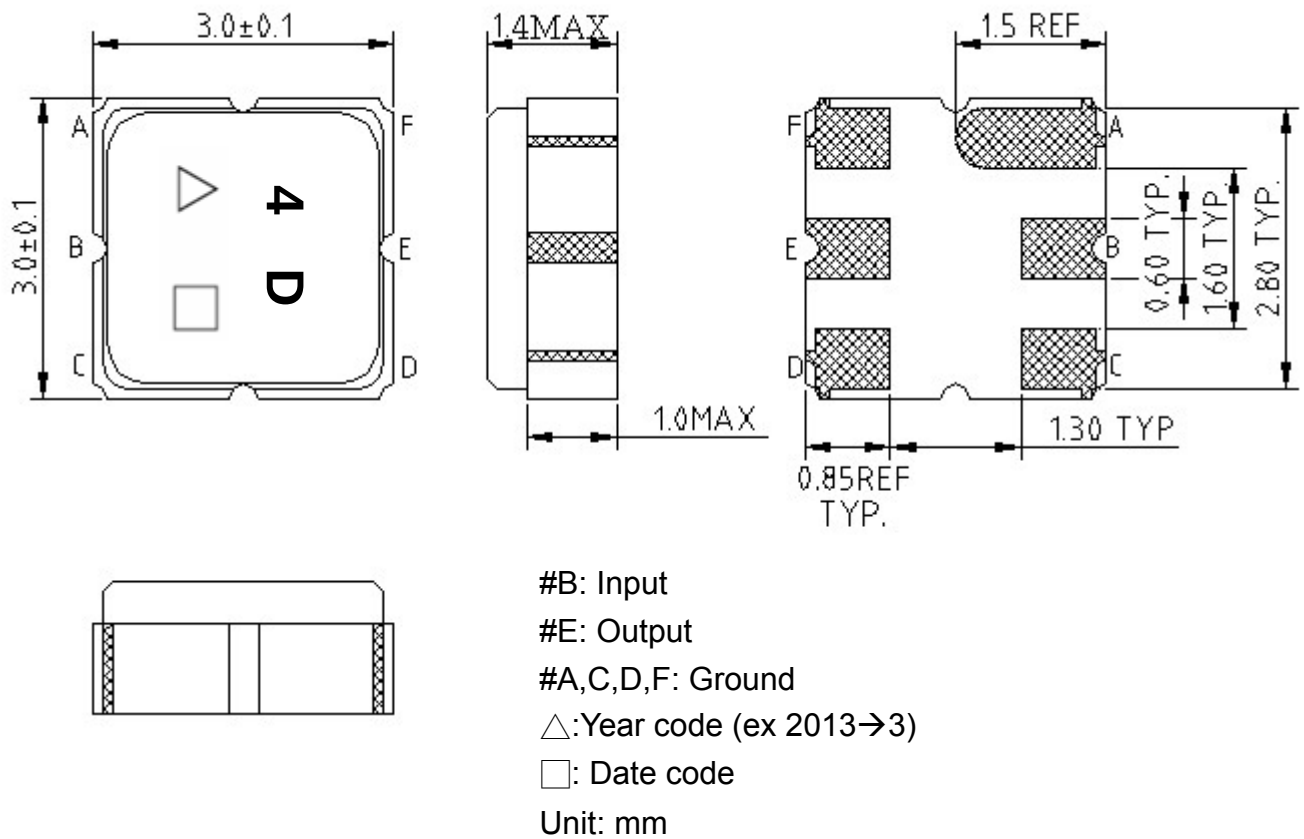


D. MEASUREMENT CIRCUIT:

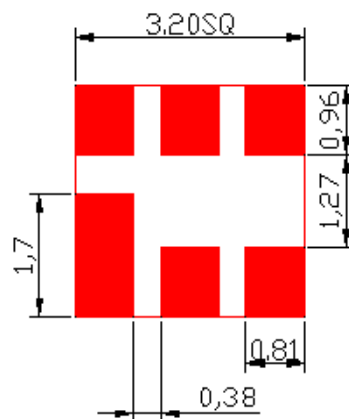
**TESTING ENVIRONMENT**



## E.OUTLINE DRAWING:



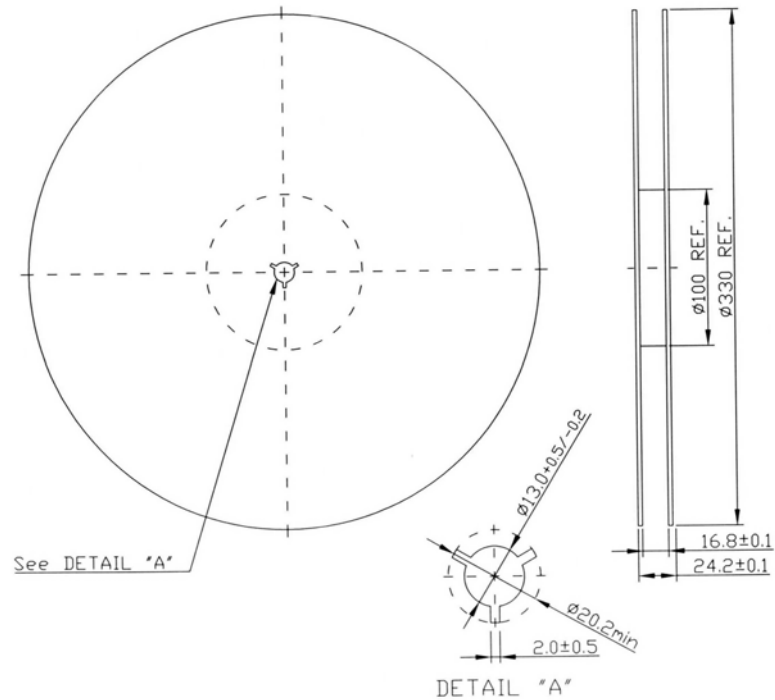
## F. PCB FootPrint



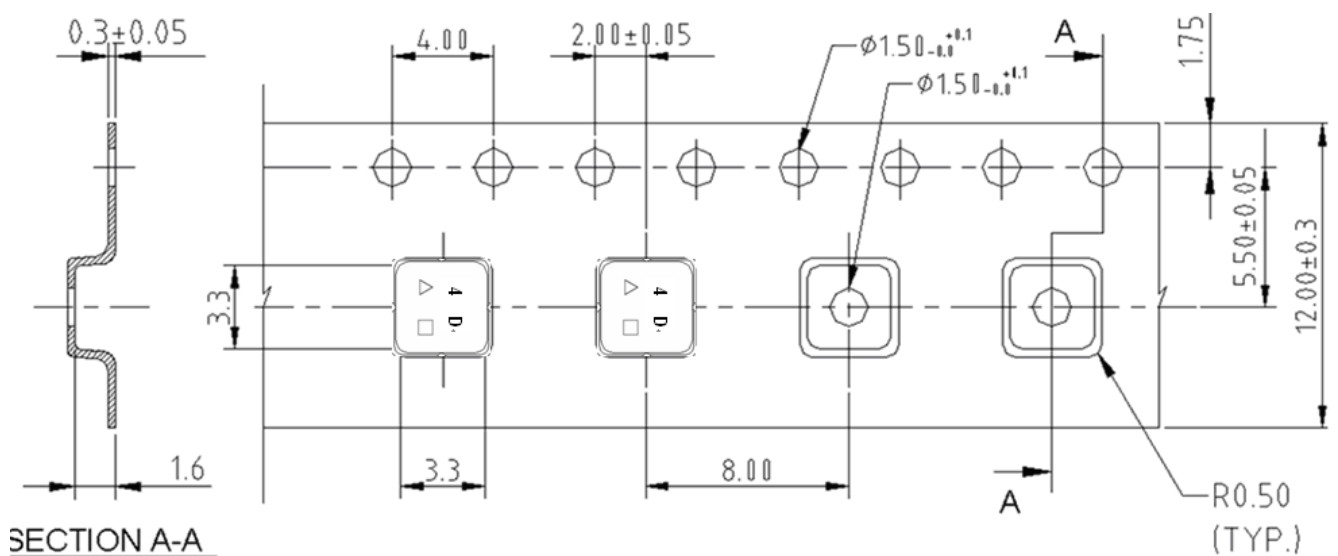
## G. PACKING:

### 1. REEL DIMENSION

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



### 2.TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

