



# 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 499MHz SMD 3.8×3.8mm (BW=24MHz)

TST Parts No.:TA1352A

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

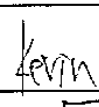
Customer signature required

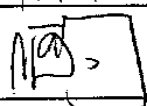
Company:\_\_\_\_\_

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

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

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

Checked by: Kevin 

Approval by: Francis Chen 

Date: 2011/07/18

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 499 MHz

MODEL NO.: TA1352A

REV. NO.: 1

### A. MAXIMUM RATING:

1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -30°C to 60°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

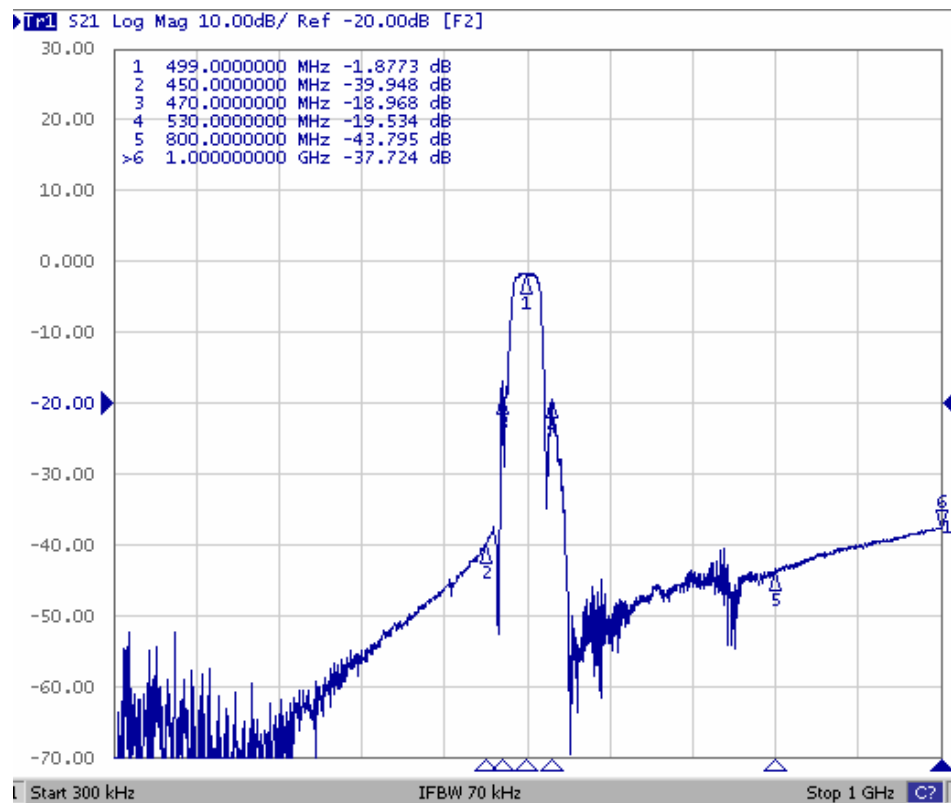
Electrostatic Sensitive Device (ESD)

### B. CHARACTERISTICS:

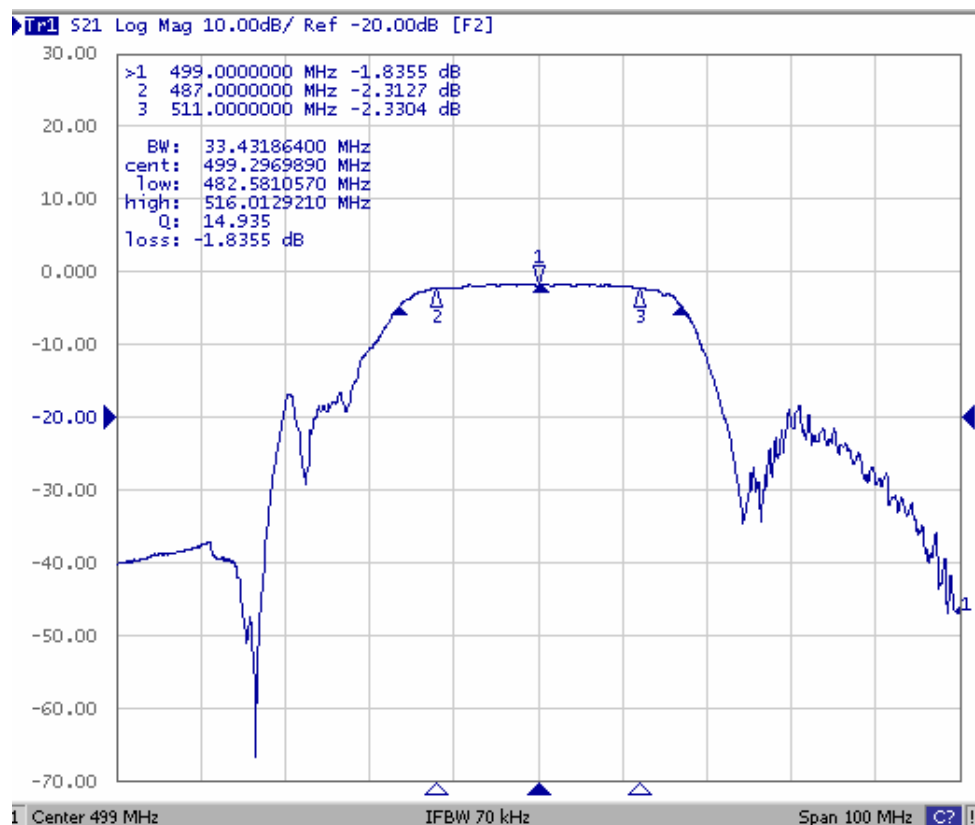
| Item                               | Unit | Min. | Typ. | Max. |
|------------------------------------|------|------|------|------|
| Center frequency, F <sub>c</sub>   | MHz  | -    | 499  | -    |
| Amplitude ripple (487 ~ 511 MHz)   | dB   | -    | 1.1  | 1.7  |
| Insertion loss, IL (487 ~ 511 MHz) | dB   | -    | 2.2  | 3.0  |
| Group Delay, GD (487 ~ 511 MHz)    | ns   | -    | 52   | 200  |
| Bandwidth @ -3 dB                  |      | 24   | 33.4 | -    |
| Attenuation (reference from 0dB)   |      |      |      |      |
| 0.3 ~ 450 MHz                      | dB   | 34   | 39   | -    |
| 450 ~ 470 MHz                      | dB   | 10   | 18   | -    |
| 530 ~ 560 MHz                      | dB   | 10   | 20   | -    |
| 560 ~ 800 MHz                      | dB   | 38   | 43   | -    |
| 800 ~ 1000 MHz                     | dB   | 32   | 37   | -    |
| Source impedance, Z <sub>S</sub>   | Ω    | -    | 50   | -    |
| Load impedance, Z <sub>L</sub>     | Ω    | -    | 50   | -    |

Note1. No matching network required for operation at 50Ω

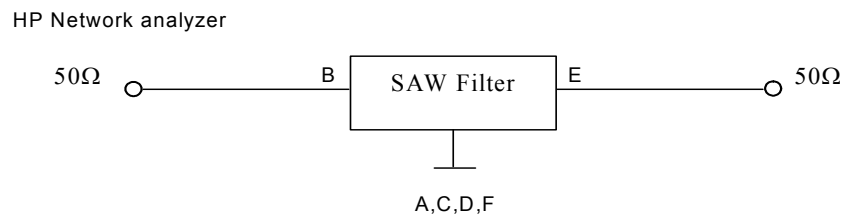
## C. Transfer Function : Wideband



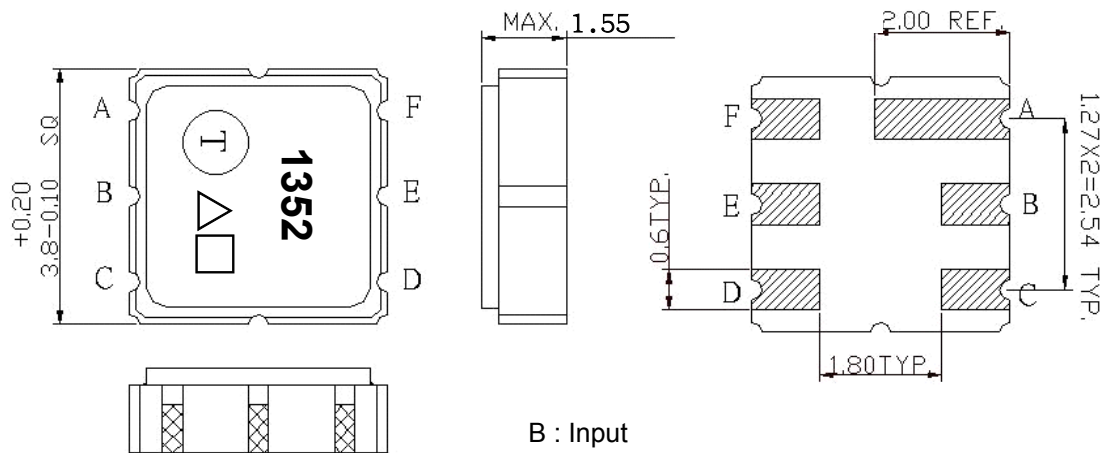
## Passband



# D. MEASUREMENT CIRCUIT:



# E.OUTLINE DRAWING:



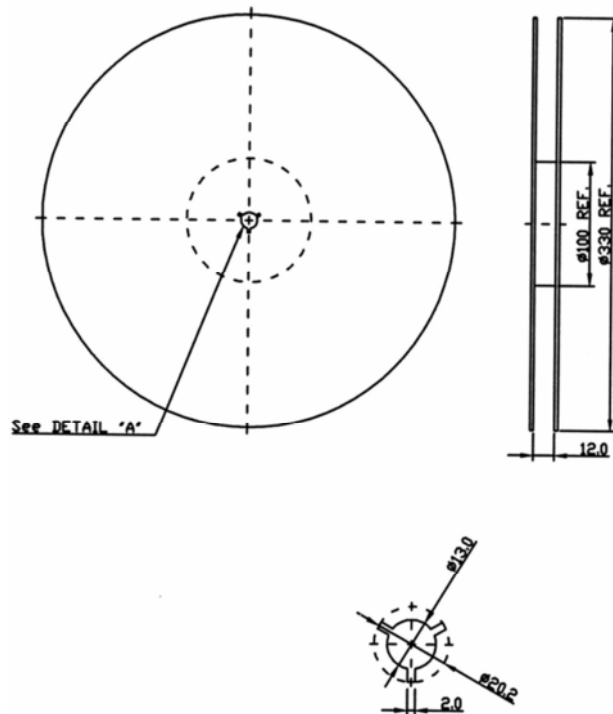
B : Input  
 E: Output  
 A,C,D,F Ground  
 △:Year Code  
 □: Date Code(Follow the table provided by planner each year.)  
 Unit: mm

△ Product Year Code

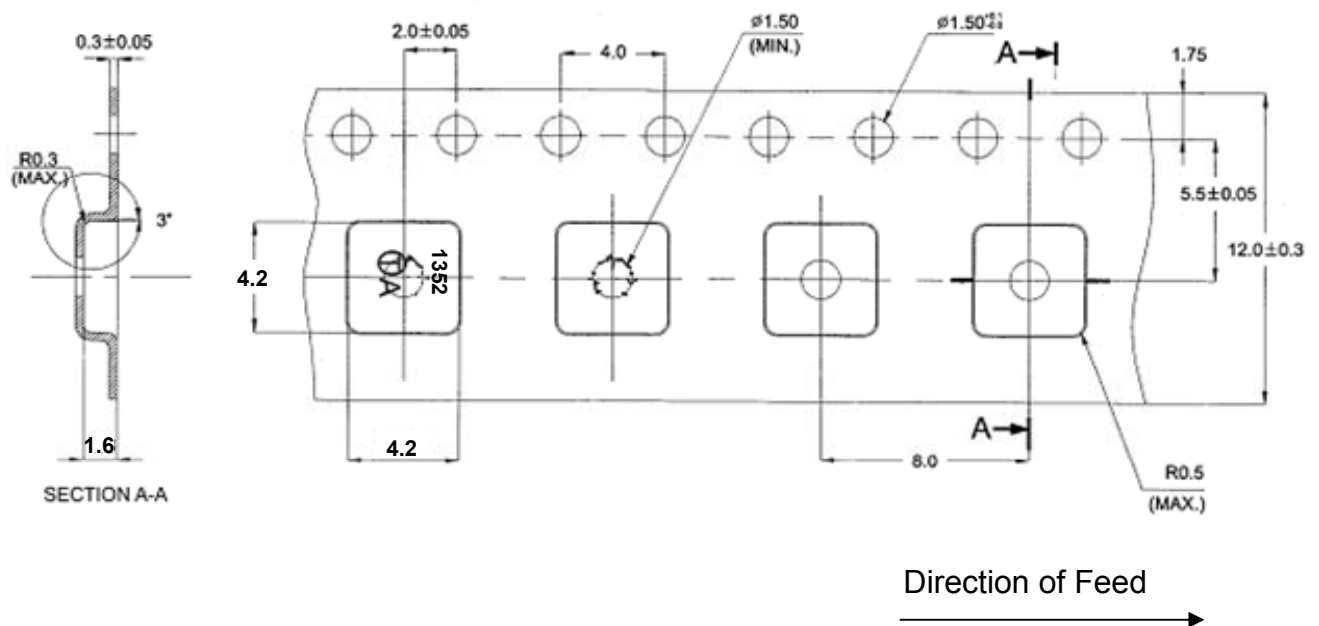
|              |      |      |
|--------------|------|------|
| Year         | 2011 | 2012 |
|              | 2013 | 2014 |
|              | 2015 | 2016 |
|              | .    | .    |
| Product Code | A    | a    |

## F. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

