



# 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 755 MHz SMD 3.8X3.8 mm (BW=24MHz)

TST Part No.: TA1297A

Customer Part No.: \_\_\_\_\_

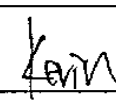
Customer signature required

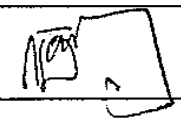
Company: \_\_\_\_\_

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

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

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

Checked by: \_\_\_\_\_ Kevin 

Approved by: \_\_\_\_\_ Francis Chen 

Date: \_\_\_\_\_ 2/24/2011

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 755 MHz

MODEL NO.: TA1297A

REV. NO.:2

### 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: -30°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

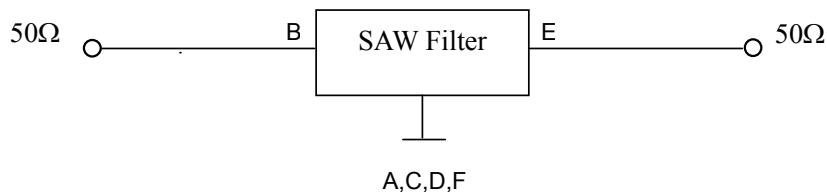
### B. CHARACTERISTICS:

| Item                                       | Unit | Min. | Typ. | Max. |
|--------------------------------------------|------|------|------|------|
| Center frequency Fc MHz                    |      | -    | 755  | -    |
| 3dB Bandwidth MHz                          | dB   | 24   | 32   | -    |
| Amplitude ripple 743 ~ 767 MHz             | dB   | -    | 1.0  | 1.7  |
| Insertion loss 743 ~ 767 MHz               | dB   | -    | 2.6  | 3.0  |
| Group Delay variation within 743 ~ 767 MHz | ns   | -    | 25   | 200  |
| Attenuation (reference from 0dB)           |      |      |      |      |
| 0.3 ~ 680 MHz                              | dB   | 40   | 52   | -    |
| 680 ~ 729 MHz                              | dB   | 10   | 45   | -    |
| 781 ~ 845 MHz                              | dB   | 10   | 20   | -    |
| 845 ~ 1055 MHz                             | dB   | 40   | 53   | -    |
| 1050 ~ 1205 MHz                            | dB   | 45   | 50   | -    |
| Source impedance Z <sub>s</sub>            | Ω    | -    | 50   | -    |
| Load impedance Z <sub>L</sub>              | Ω    | -    | 50   | -    |

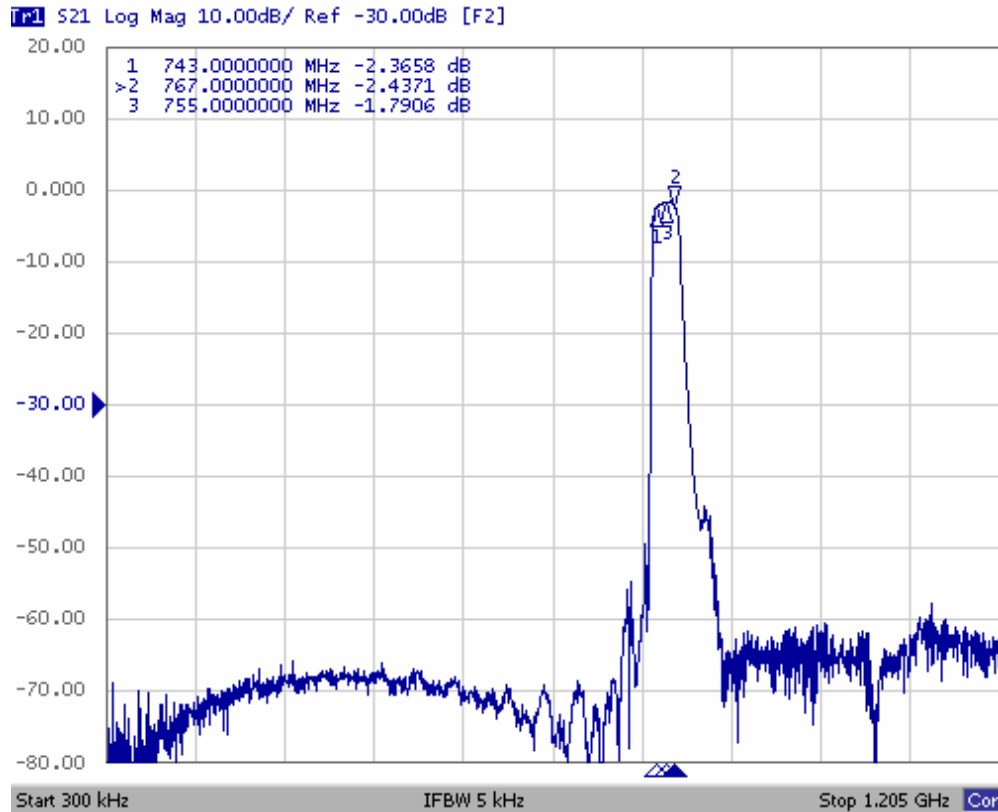
Note1. No matching network required for operation at 50Ω

### C. MEASUREMENT CIRCUIT:

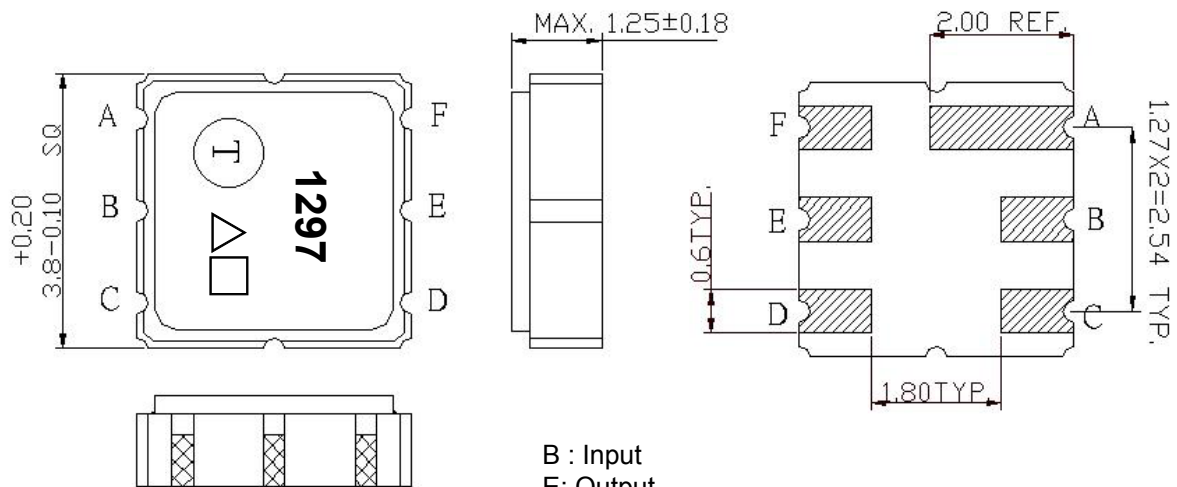
HP Network analyzer



## D. TRANSFER FUNCTION :



## E.OUTLINE DRAWING:



B : Input  
E: Output  
A,C,D,F Ground

△:Year Code

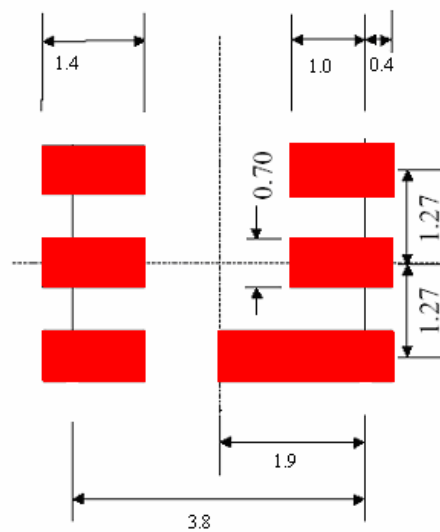
□: Date Code(Follow the table provided by planner each year.)

Unit: mm

△ Product Year Code

| Year         | 2008 | 2008 |
|--------------|------|------|
|              | 2009 | 2010 |
| Product Code | A    | a    |
|              |      |      |

## F.PCB FOOTPRINT:



## 1. REEL DIMENSION

See DETAIL "A"

Technical drawing of a circular component. The main view shows a large circle with a dashed circle inside, representing a hole. A leader line points from the center of the hole to a detail callout labeled "See DETAIL 'A'". To the right, a vertical dimension line indicates a distance of 12.0 from the center of the hole to the top edge of the component. Below the main view, a detail view (DETAIL "A") shows a cross-section of the hole, with dimensions  $\phi 13.0$  and  $\phi 20.2$  indicating the diameters of the hole and the surrounding material, respectively. A dimension of 2.0 is also shown for the thickness of the material.

Section A-A

Direction of Feed

H. REFLOW PROFILE

