



# 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 Description: SAW Filter 899 MHz SMD 3.0x3.0 mm

TST Part No.: TA1083A

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

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

Checked by: \_\_\_\_\_ David Chang 張閔智

Approved by: \_\_\_\_\_ Francis Chen [Signature]

Date: \_\_\_\_\_ 2009/08/26

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 899 MHz

MODEL NO.: TA1083A

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 +80°C
4. Storage Temperature: -40°C to +85°C

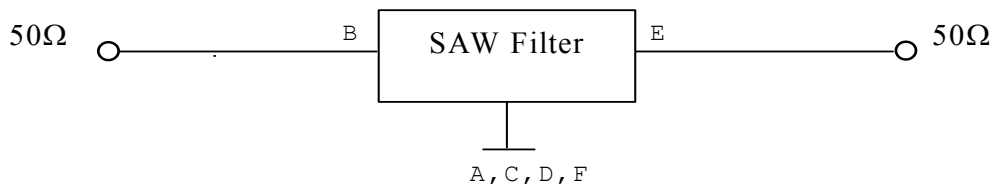
RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS:

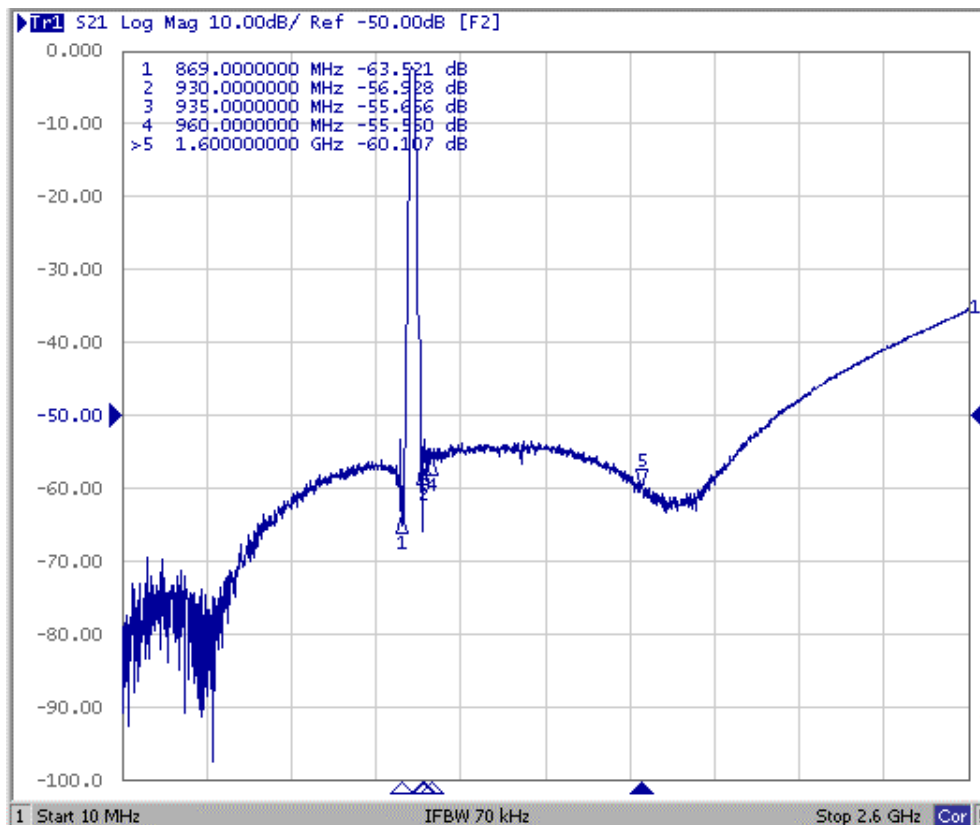
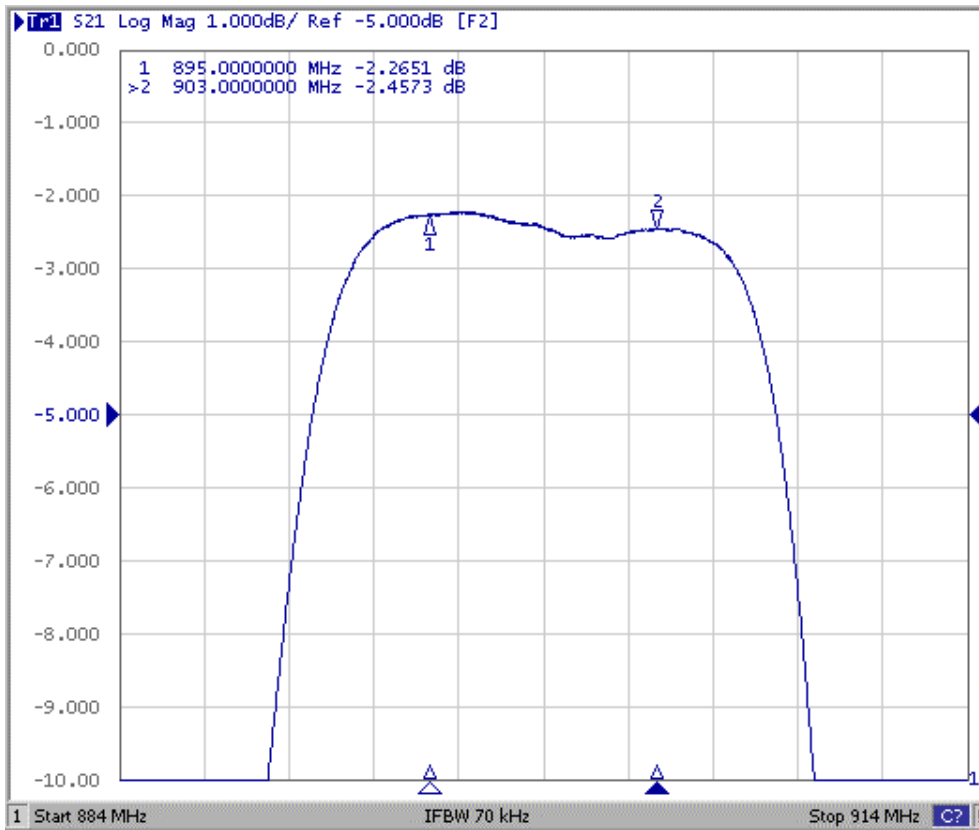
Item	Unit	Min.	Type.	Max.
<b>Center frequency</b> <b>F<sub>c</sub></b>	MHz	-	899	-
<b>Insertion Loss</b> (895~903 MHz) <b>IL</b>	dB	-	2.6	3.5
<b>Amplitude Ripple</b> (895~903 MHz)	dB	-	0.4	2.0
<b>Input/Output VSWR</b> (895~903 MHz)	-	-	1.7	2.2
<b>Attenuation</b> (Reference level from 0 dB)				
10 ~ 869 MHz	dB	37	53	-
930 ~ 935 MHz	dB	37	53	-
935 ~ 960 MHz	dB	37	54	-
960 ~ 1600 MHz	dB	35	53	-
1600 ~ 2600 MHz	dB	31	36	-

### C. MEASUREMENT CIRCUIT:

HP Network analyzer

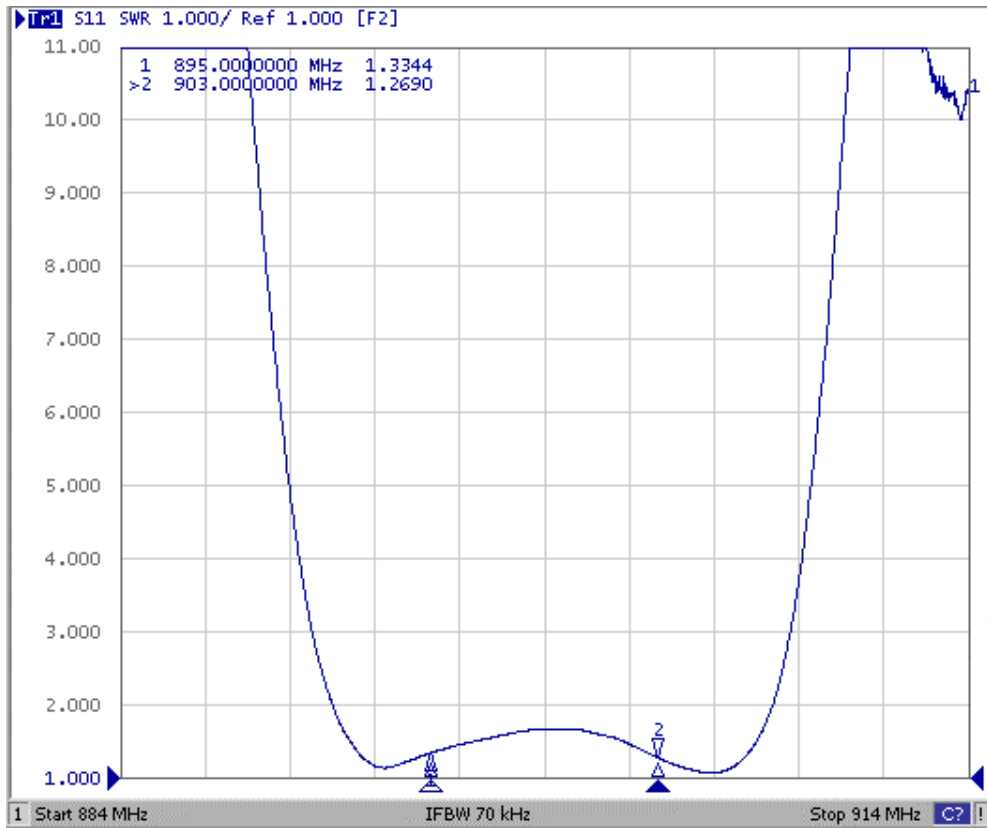


## D. Frequency Characteristics:

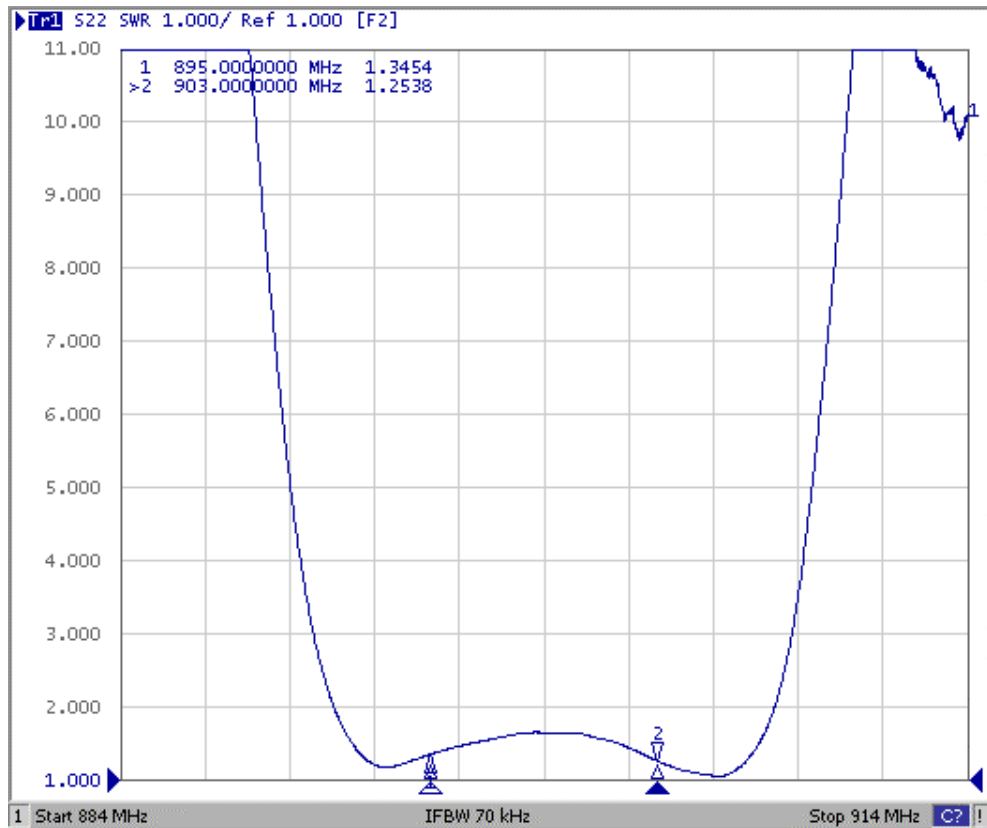


## Reflection Functions :

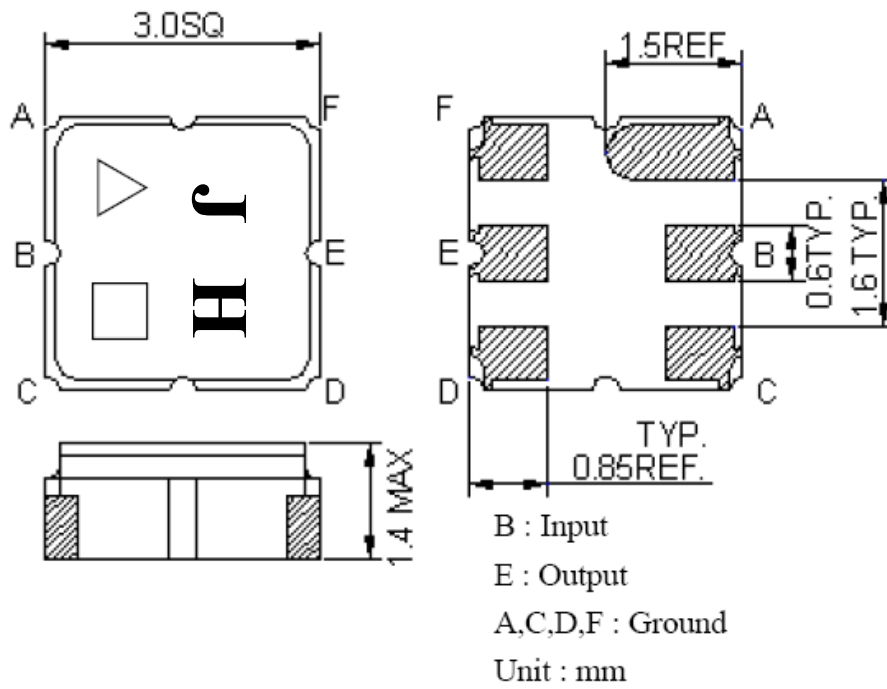
### S11



### S22

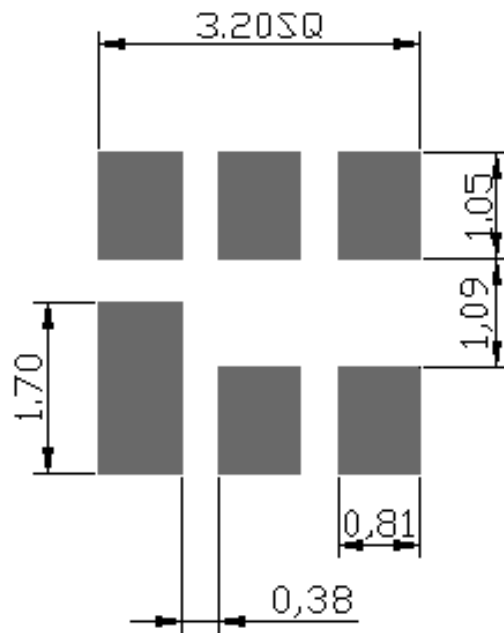


**E. OUTLINE DRAWING:**



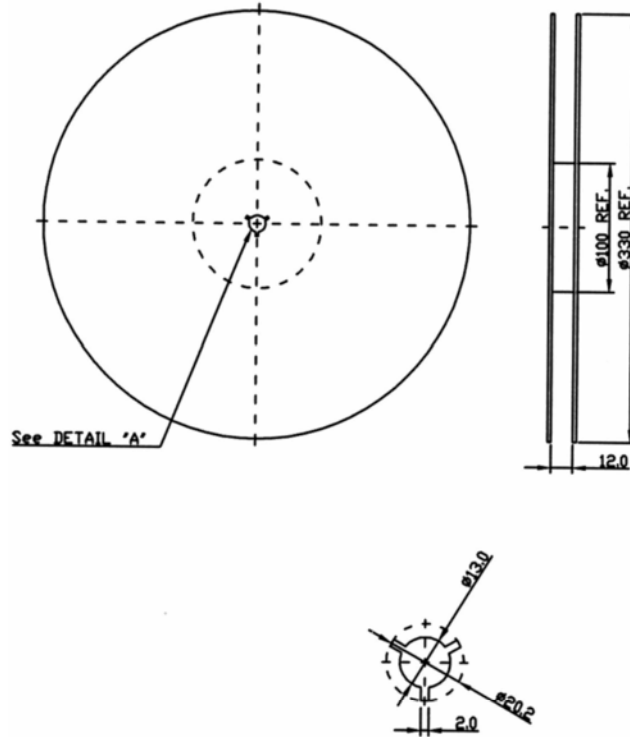
- △ : Year Code (2006->6, ..., 2009->9)
- : Date Code (W01->A,W02->B,...W27->a,...,W52->z)

**F. PCB Footprint:**

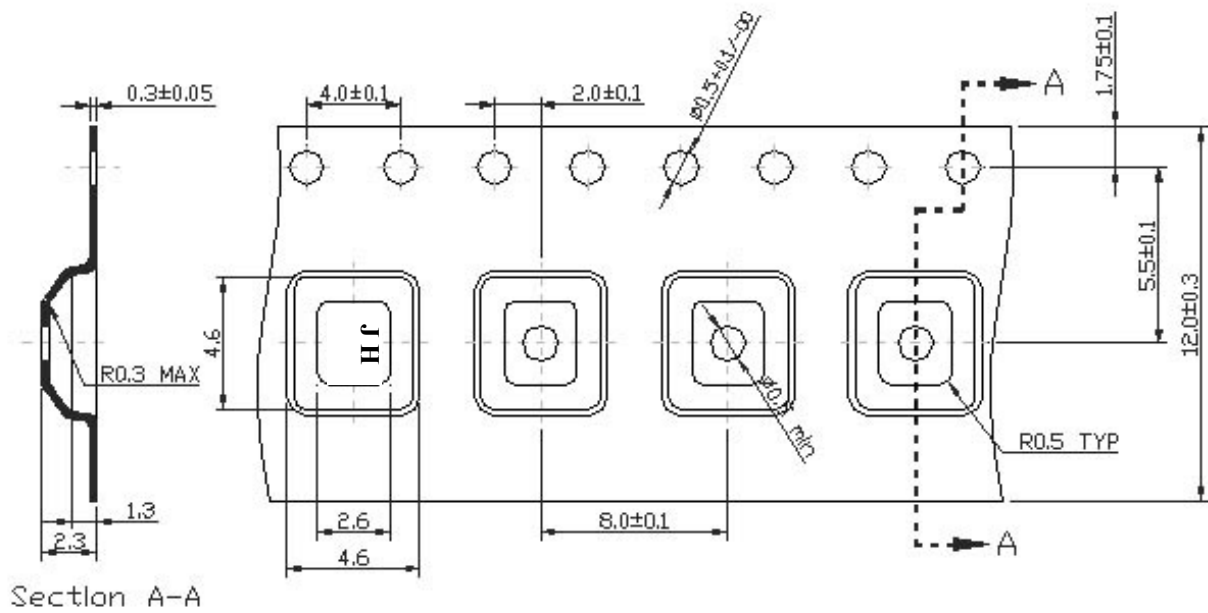


## G. PACKING:

### 1. REEL DIMENSION



### 2. TAPE DIMENSION



**H. RECOMMENDED REFLOW PROFILE :**

