



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,

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## Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 106 MHz

TST Parts No.: TB0894A

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

Customer signature required

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

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

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

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

Checked by: \_\_\_\_\_ Kazuma Lee 

Approval by: \_\_\_\_\_ Francis Chen 

Date: \_\_\_\_\_ 10 / 11 / 2010

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 106MHz 15MHz BW (Dip 22×12.5 mm)

MODEL NO.: TB0894A

REV. NO.1

## A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

## B. Characteristics :

1. Ambient Temperature: 25 °

| Item                                            | Unit   | Min. | Type. | Max. |
|-------------------------------------------------|--------|------|-------|------|
| Center frequency, <b>F<sub>c</sub></b>          | MHz    | -    | 106   | -    |
| Insertion Loss, <b>IL</b>                       | dB     | -    | 23    | 27   |
| -1.5dB bandwidth                                | MHz    | 15.0 | 16.0  | -    |
| -40dB bandwidth                                 | MHz    | -    | 17.5  | 18.6 |
| Passband Ripple <b>F<sub>c</sub>±5MHz</b>       | MHz    | -    | 0.6   | 1.0  |
| Group Delay Variation <b>F<sub>c</sub>±5MHz</b> | nsec   | -    | 50    | 120  |
| Absolute Delay                                  | usec   | -    | 2.2   | 2.7  |
| Temp. Coefficient                               | ppm/°C | -    | -94   | -    |
| Source Impedance                                | Ohm    | -    | 50    | -    |
| Load Impedance                                  | Ohm    | -    | 50    | -    |

## C. Frequency Characteristics :

### (1) Wide band Response:(span 100MHz)

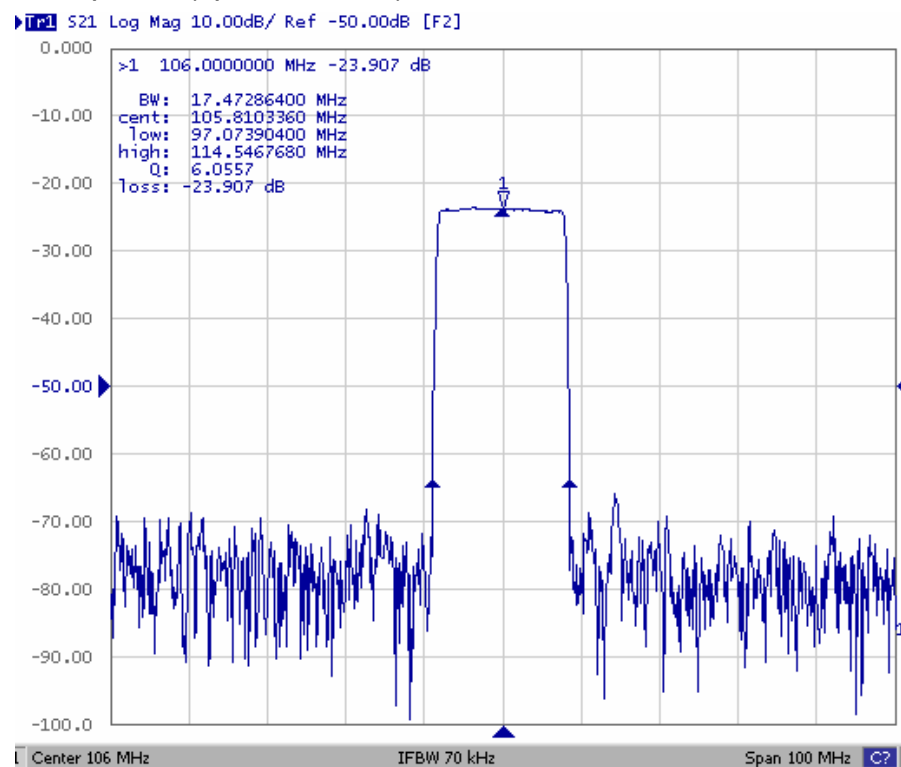


Fig1. Horizontal: 10MHz/Div Vertical: 10dB/Div

### (2) Pass band Response and Group Delay Response:

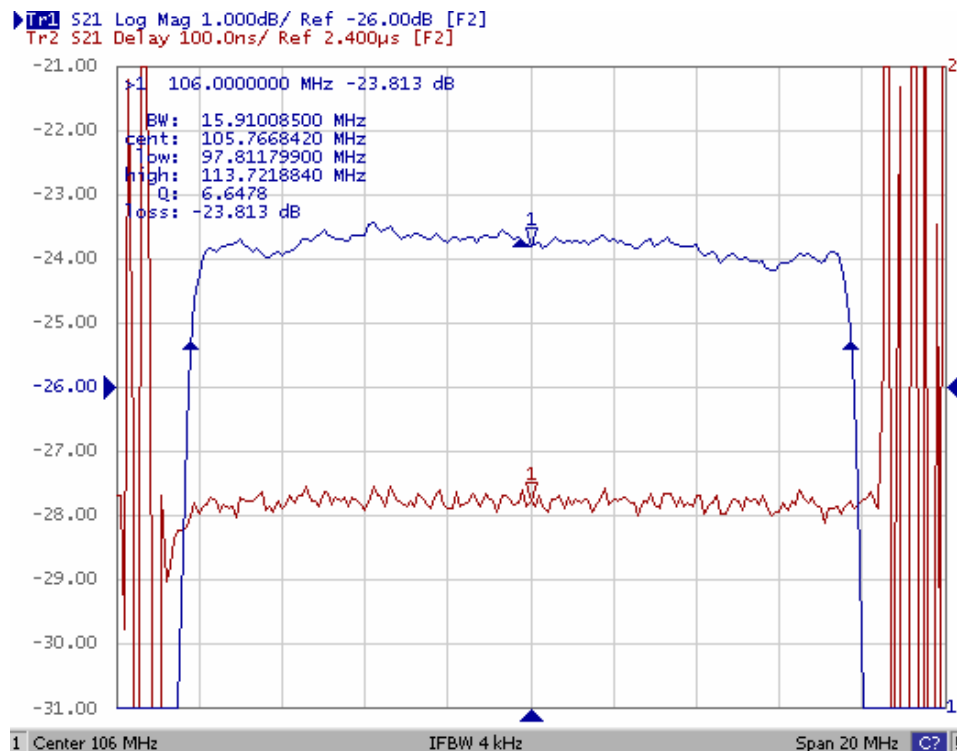
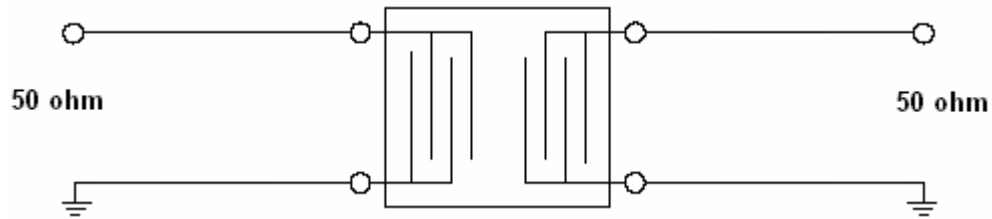
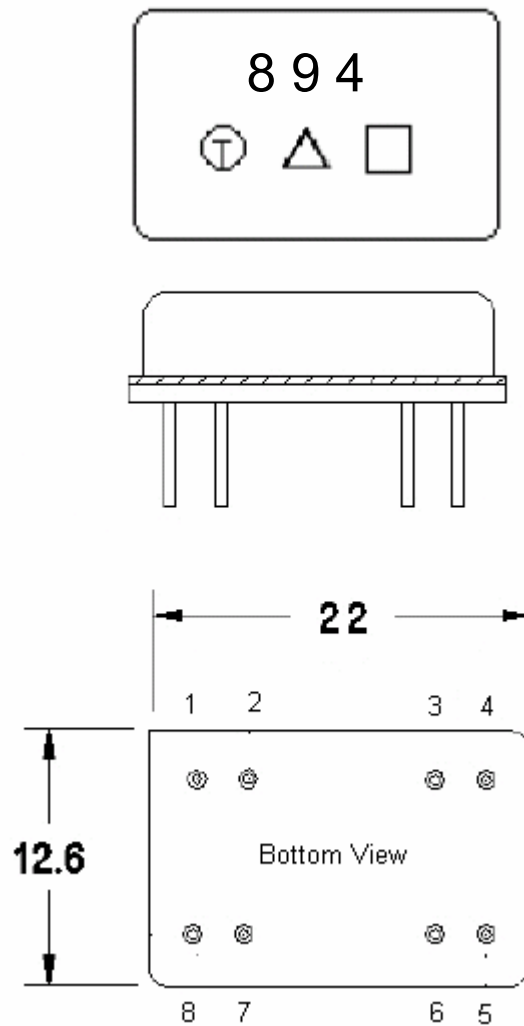


Fig2. Horizontal: 2MHz/Div Vertical: 1dB/Div  
Vertical: 100ns/Div

#### D. Matching Circuit:



#### E. Outline Drawing:



#8 : Input

#1 : Input Ground

#4 : Output

#5 : Output Ground

#2,3,6,7 : Ground

□: Week Code (Follow the table from planner each year)

Unit: mm

△ : Product / Year Code

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| Year         | 2009<br>2013 | 2010<br>2014 | 2011<br>2015 | 2012<br>2016 |
| Product Code | B            | b            | <u>B</u>     | <u>b</u>     |

#### F. RECOMMENDED REFLOW PROFILE\_:

