



# 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: 130.34 MHz 27MHz BW SMD 7.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1036A

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

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

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

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

Date: \_\_\_\_\_ 11 / 08 / 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 130.34MHz 27MHz BW (SMD 7.0×5.0 mm)

MODEL NO.: TB1036A

REV. NO.1

## A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 65°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device

## B. Characteristics :

| Item   | Unit   | Min. | Type.  | Max. |
|--|--------|------|--------|------|
| Center frequency, <b>F<sub>c</sub></b>                     | MHz    | -    | 130.34 | -    |
| Insertion Loss, <b>IL</b>                                  | dB     | -    | 12.0   | 16.0 |
| 1dB Band Width   | MHz    | 27   | 30.4   |      |
| Amplitude Ripple <b>F<sub>c</sub>±12.5MHz</b>              | dB     | -    | 0.6    | 1.0  |
| Attenuation (Reference level from typical Insertion loss ) |        |      |        |      |
| DC ~104 MHz  | dB     | 40   | 50     |      |
| 153 MHz ~ 800 MHz  | dB     | 40   | 45     |      |
| Temperature Coefficient                                    | ppm/°C | -    | -94    | -    |
| Source Impedance   | Ohm    | -    | 50     | -    |
| Load Impedance   | Ohm    | -    | 50     | -    |

### C. Frequency Characteristics :

(1) Wide band Response:(span 200MHz)

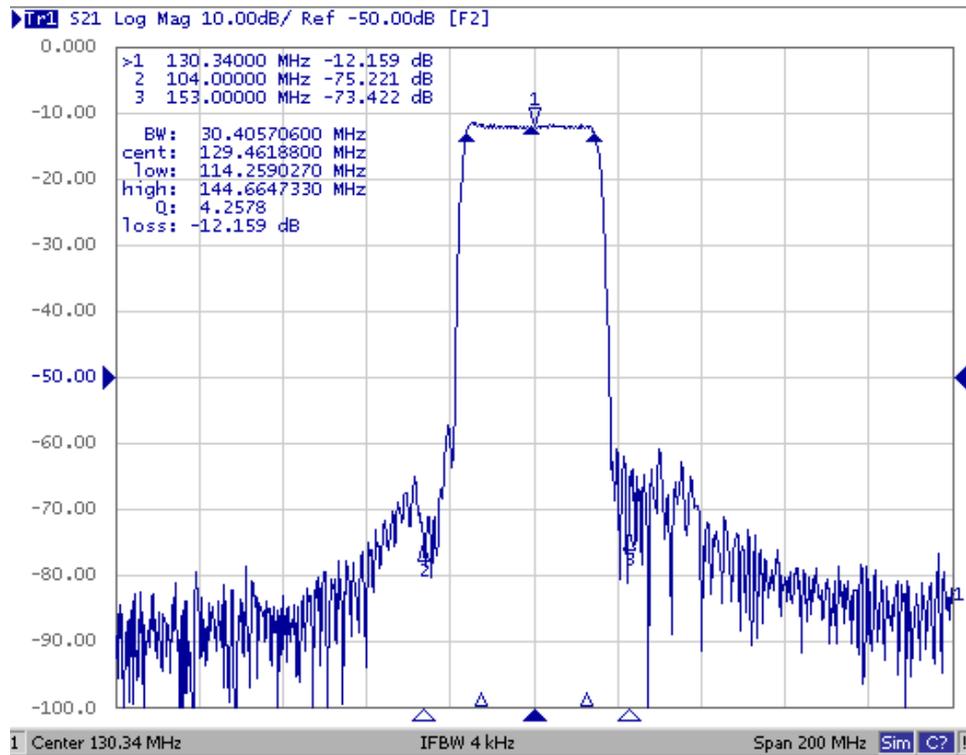


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

(2) Pass band Response and Group Time Delay response:

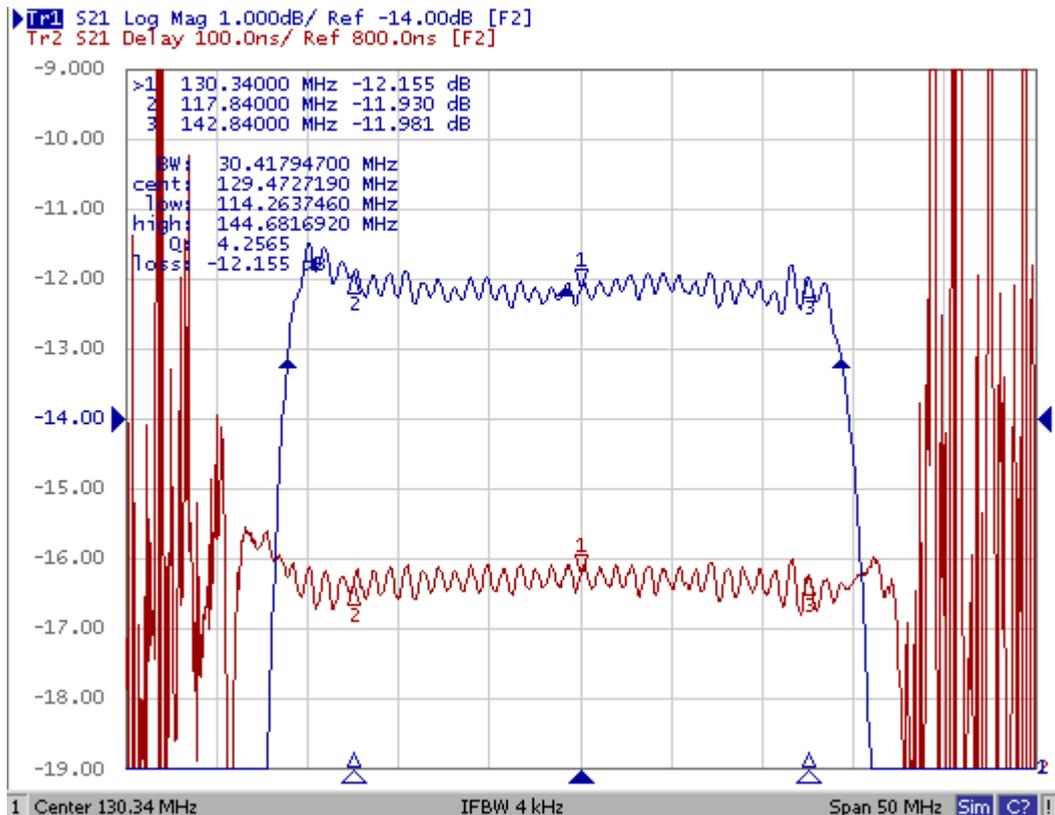
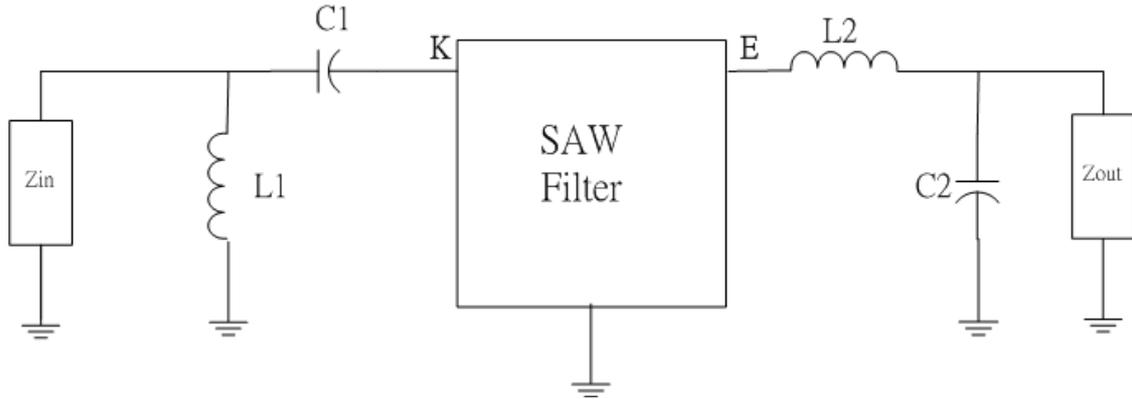


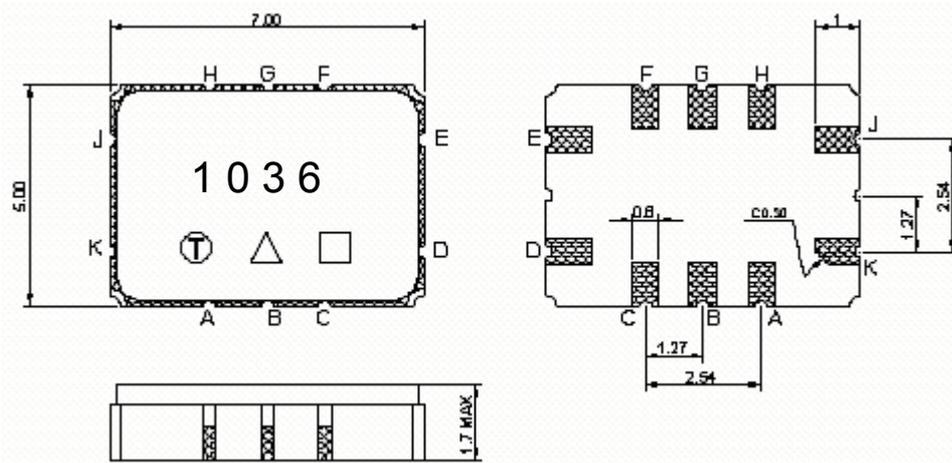
Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div  
Vertical: 100ns/Div

**D. Matching Circuit:**



L1=39nH C1=150pF L2=47nH C2=82pF

**E. Outline Drawing:**



Pin J –RF input

Pin K –RF input ground

Pin D –RF output

Pin E –RF output ground

Pin A,B,C,F,G,H - Ground

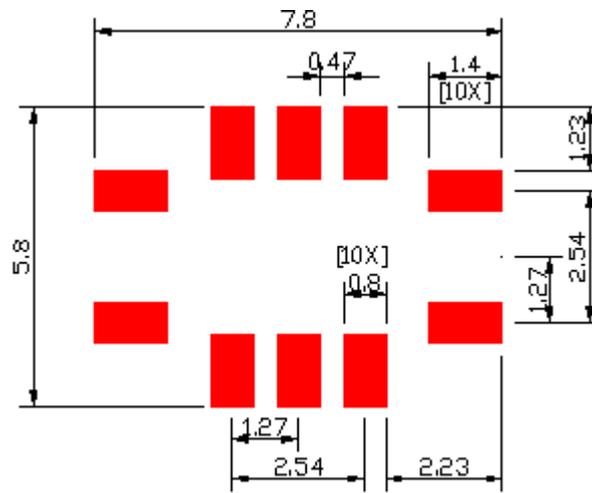
□ : Week Code (Follow the table from planner each year)

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. PCB Footprint:



## G. PACKING:

### 1. REEL DIMENSION

