



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: SAW IF Filter 340.5 MHz 55MHz BW (SMD 5.0mm x 5.0 mm)

TST Parts No.: TB0970A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 03 / 02 / 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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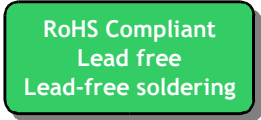
SAW Filter 340.5MHz 55MHz BW (SMD 5.0×5.0 mm)

MODEL NO.: TB0970A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°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 :

| Item | Unit | Min. | Type. | Max. |
|---|--------|------|-------|------|
| Center frequency, Fc | MHz | - | 340.5 | - |
| Insertion Loss, IL | dB | - | 11.7 | 14.0 |
| -1dB bandwidth | MHz | 55 | 59 | - |
| -40dB bandwidth | MHz | - | 74.5 | 80.0 |
| Passband Ripple Fc+/- 25MHz | dB | - | 0.4 | 1.0 |
| Attenuation:(Reference level from Min IL) | | | | |
| DC ~ 240MHz | dB | 45 | 55 | - |
| 240MHz ~275MHz | dB | 40 | 50 | - |
| 405MHz ~ 440MHz | dB | 40 | 52 | - |
| 440MHz ~ 600MHz | dB | 45 | 58 | - |
| 600MHz ~ 760MHz | dB | 35 | 45 | - |
| 760MHz ~ 1000MHz | dB | 45 | 65 | - |
| Temperature Coefficient | ppm/°C | - | -94 | - |
| Source Impedance | Ohm | - | 50 | - |
| Load Impedance | Ohm | - | 50 | - |

C. Frequency Characteristics :

(1) Wide band Response:(span 400MHz)

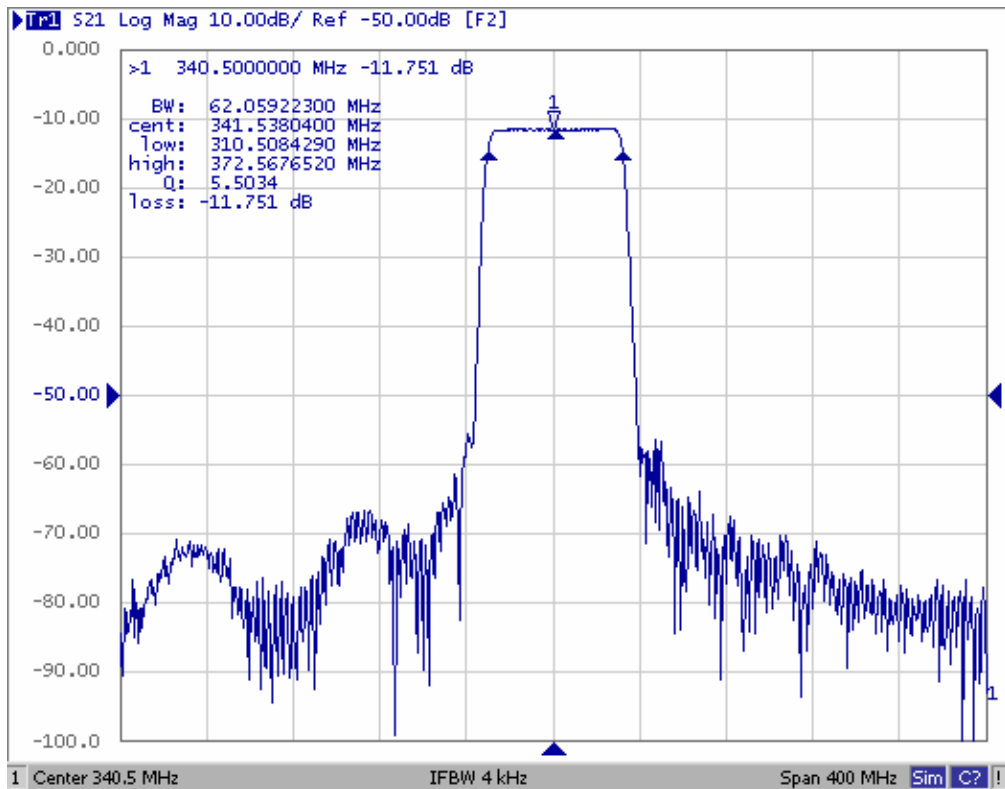


Fig1. Horizontal: 40MHz/Div Vertical: 10dB/Div

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

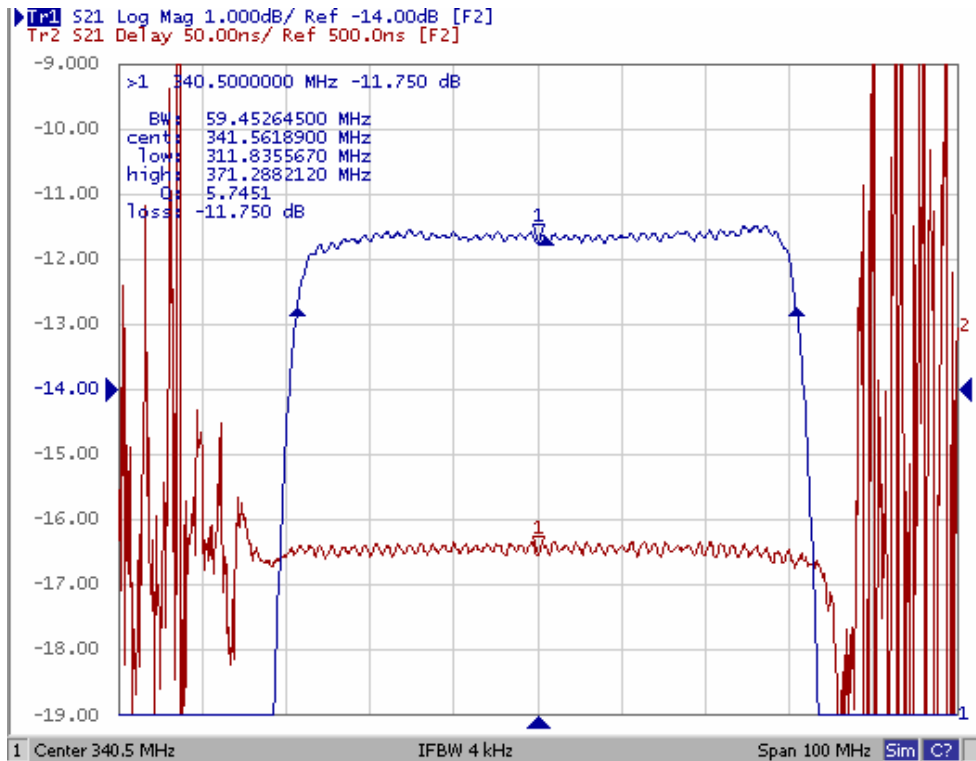
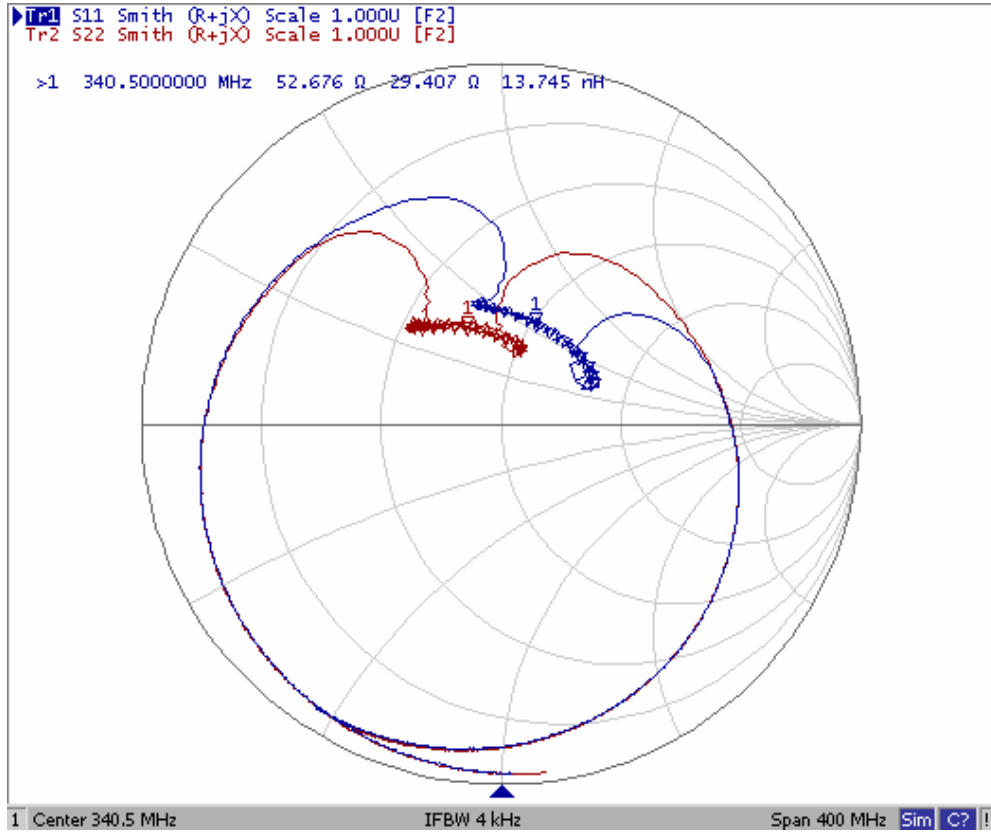


Fig2. Horizontal: 10MHz/Div Vertical: 1dB/Div
Vertical: 50ns/Div

(3) Smith Chart:



(4) Wide Band:

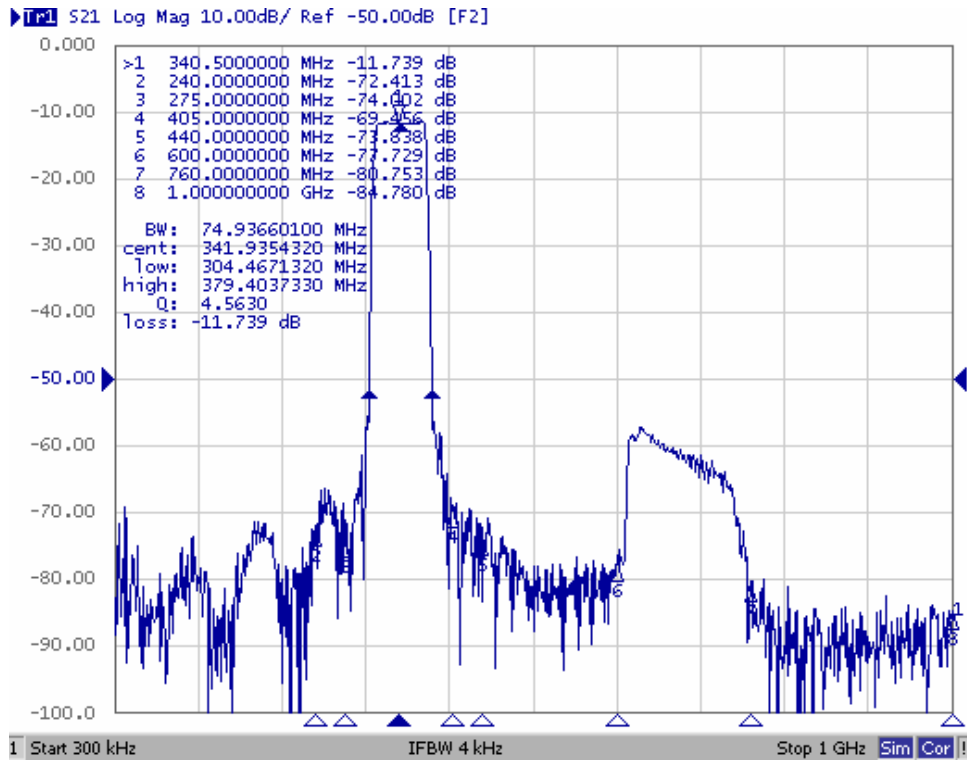
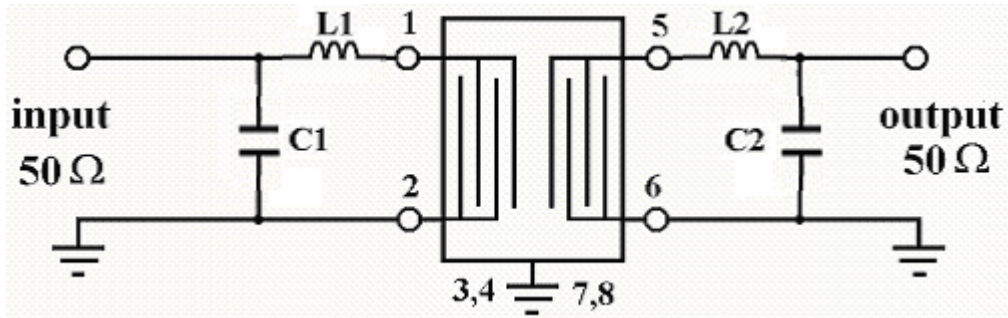


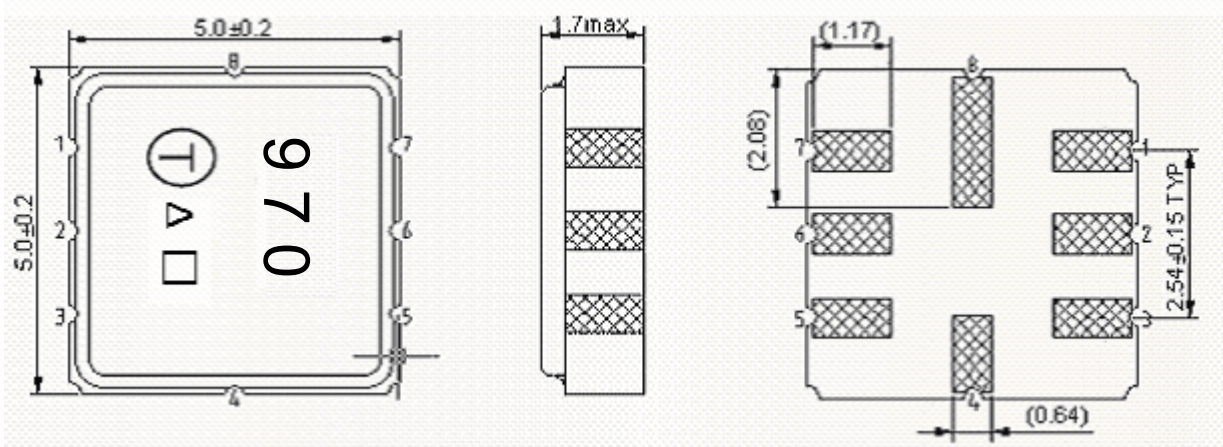
Fig4. Horizontal: 100MHz/Div Vertical: 10dB/Div

D. Matching Circuit:



L1=33n L2=33nH C1=8pF C2=8pF

E. Outline Drawing:



#3 –Input

#2 –Input ground

#7 – Output

#6 – Output ground

#1,4,5,8 – Ground

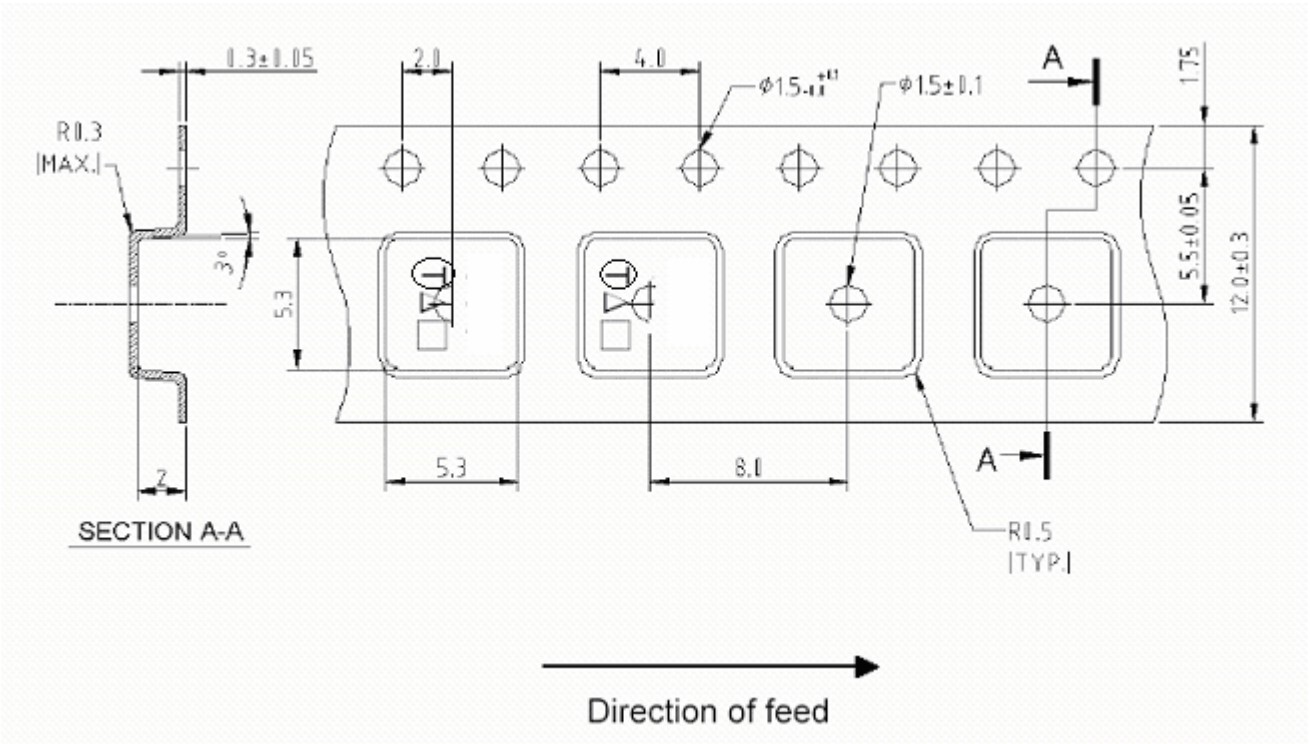
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

