



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 980 MHz 80MHz BW SMD 5.0 x 5.0 mm SAW IF Filter

TST Parts No.: TB1126A

Customer Parts No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 01 / 07 / 2014

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 980MHz 80MHz BW (SMD 5.0x5.0 mm)

MODEL NO.: TB1126A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 60°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, F_c | MHz | - | 984 | - |
| Insertion Loss, IL | dB | - | 18 | 20.0 |
| -1dB bandwidth | MHz | 80 | 87 | - |
| Passband Ripple F_c± 40MHz | dB | - | 0.7 | 1.2 |
| Attenuation:(Reference level from Min IL) | | | | |
| 10MHz ~ 850MHz | dB | 40 | 52 | - |
| 1034MHz ~ 1044MHz | dB | 10 | 20 | - |
| 1044MHz ~ 1200MHz | dB | 35 | 42 | - |
| Temperature Coefficient | ppm/°C | - | -94 | - |
| Source Impedance | Ohm | - | 50 | - |
| Load Impedance | Ohm | - | 50 | - |

C. Frequency Characteristics :

(1) Wide band Response:(span 600MHz)

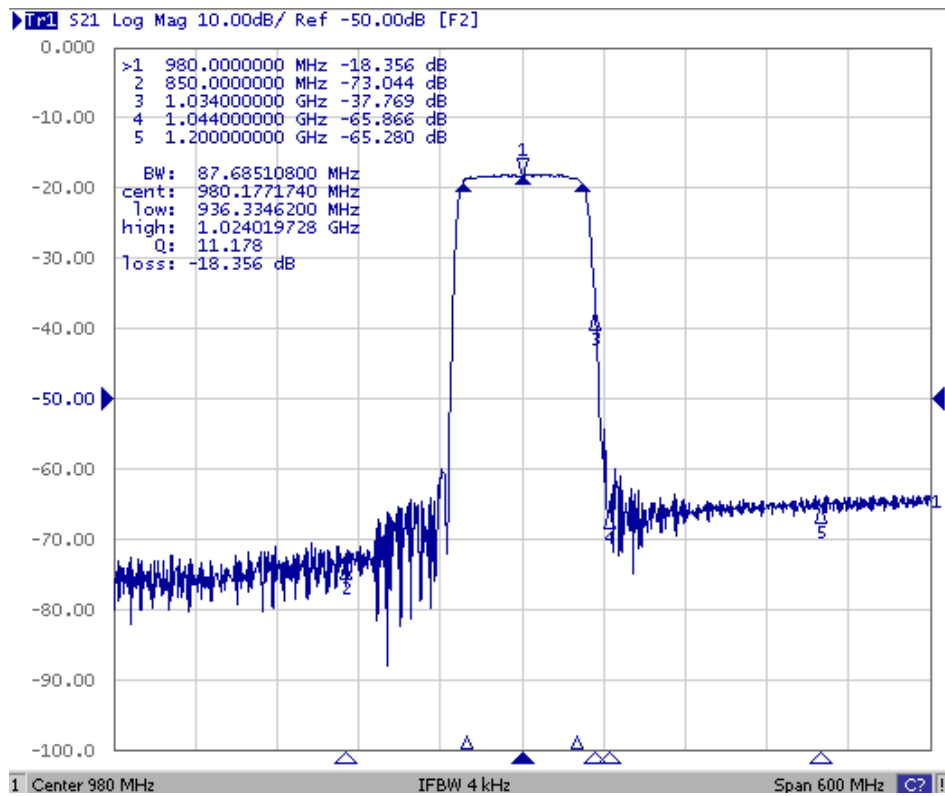


Fig1. Horizontal: 60MHz/Div Vertical: 10dB/Div

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

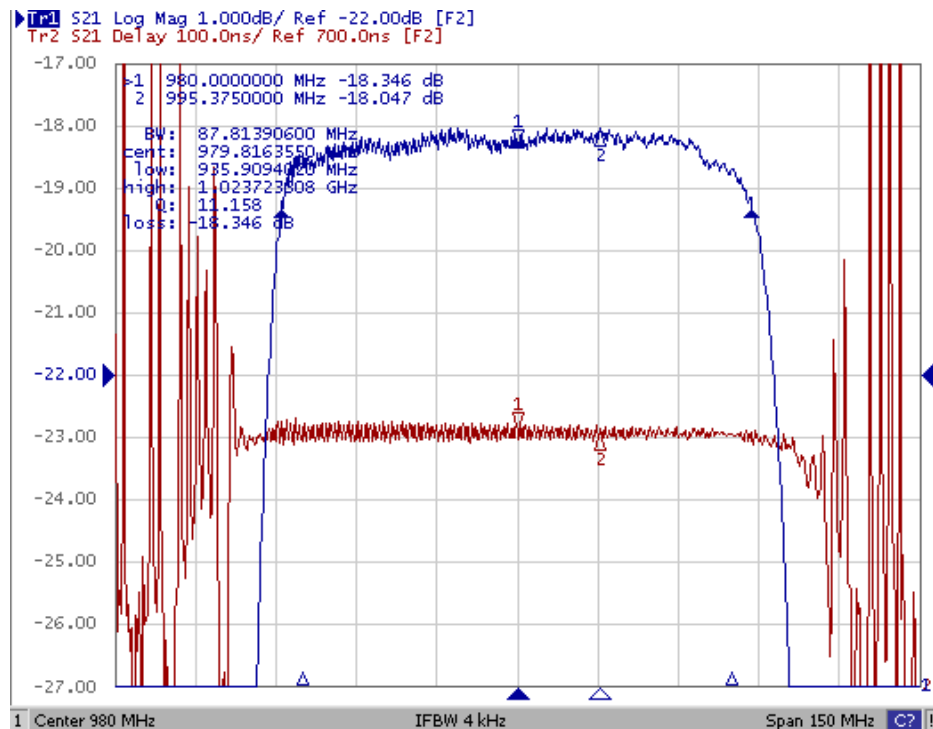
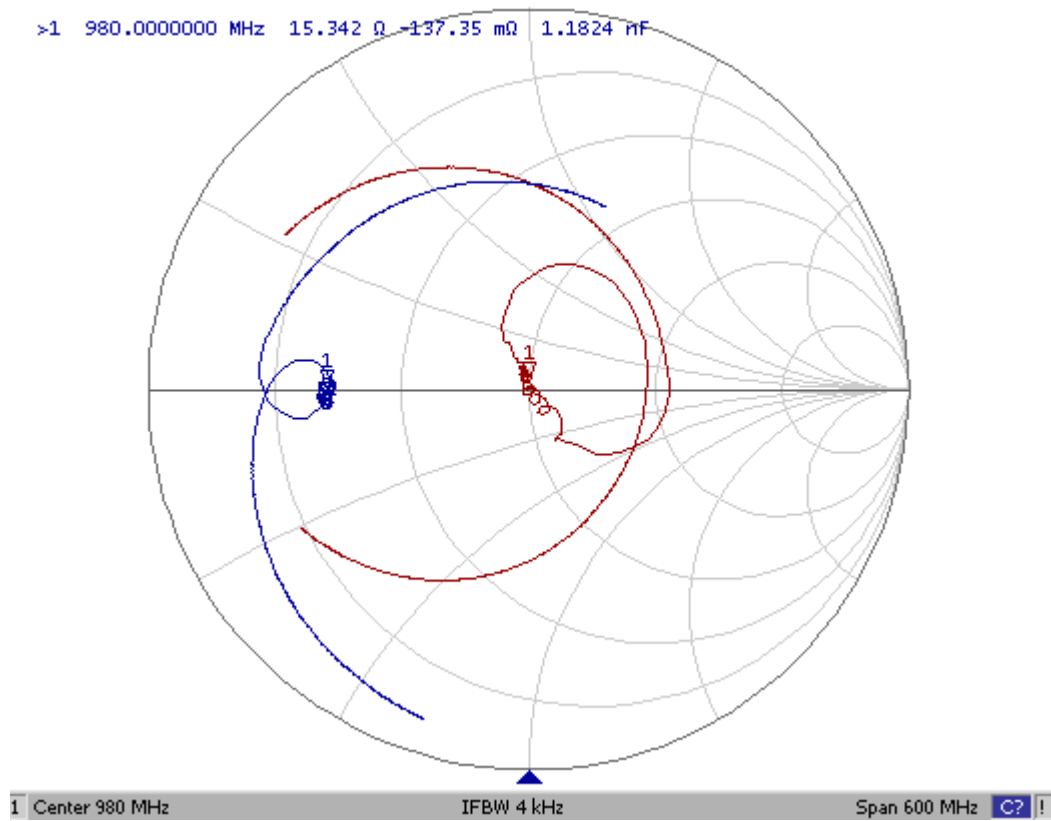


Fig2. Horizontal: 15MHz/Div Vertical: 1dB/Div
Vertical: 100ns/Div

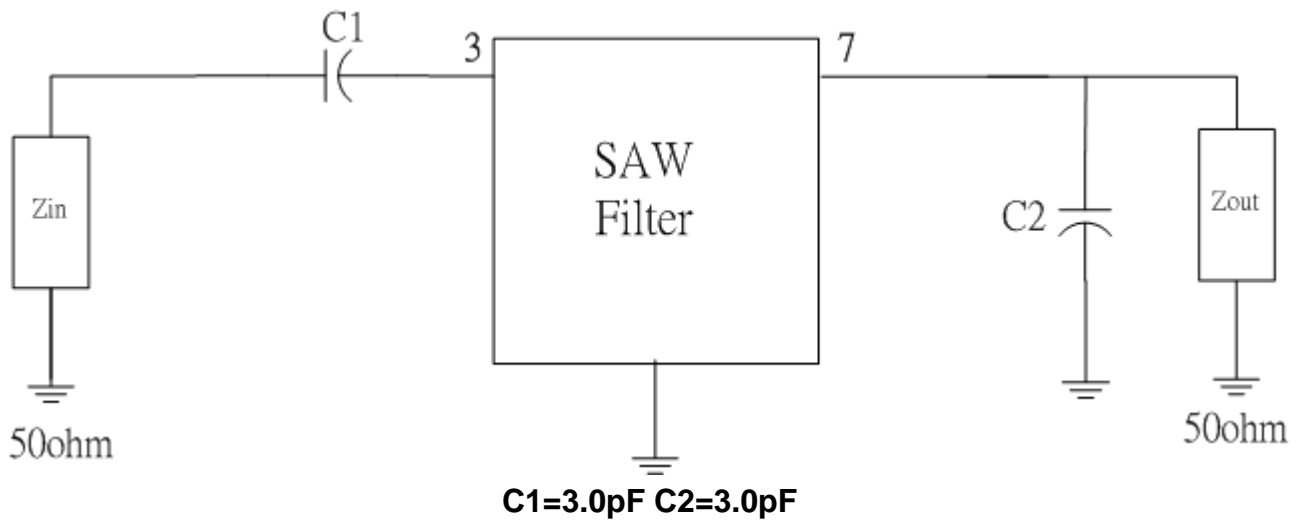
(3) Smith Chart

▶ Tr1 S11 Smith (R+jX) Scale 1.000U [F2]
Tr2 S22 Smith (R+jX) Scale 1.000U [F2]

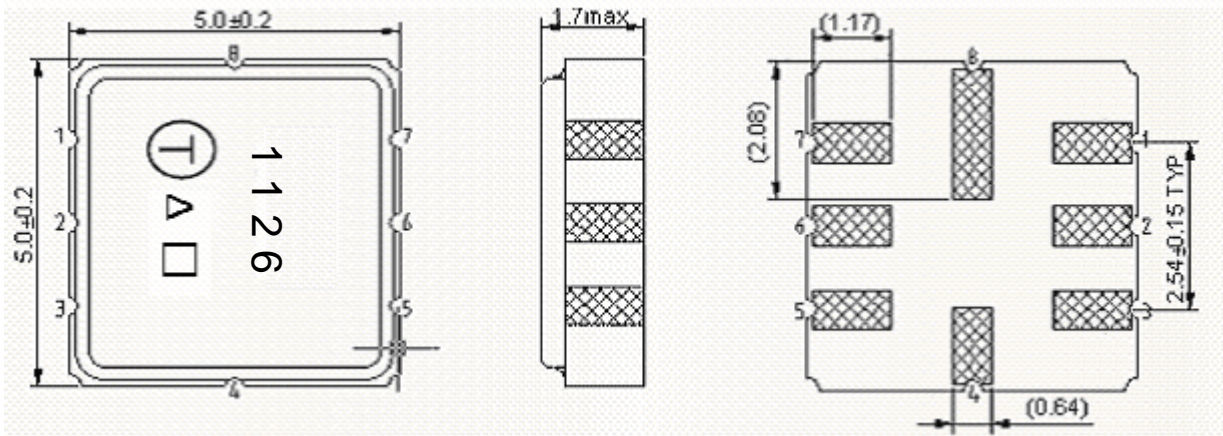
>1 980.0000000 MHz 15.342 Ω -137.35 m Ω 1.1824 nF



D. Matching Circuit:



E. Outline Drawing:



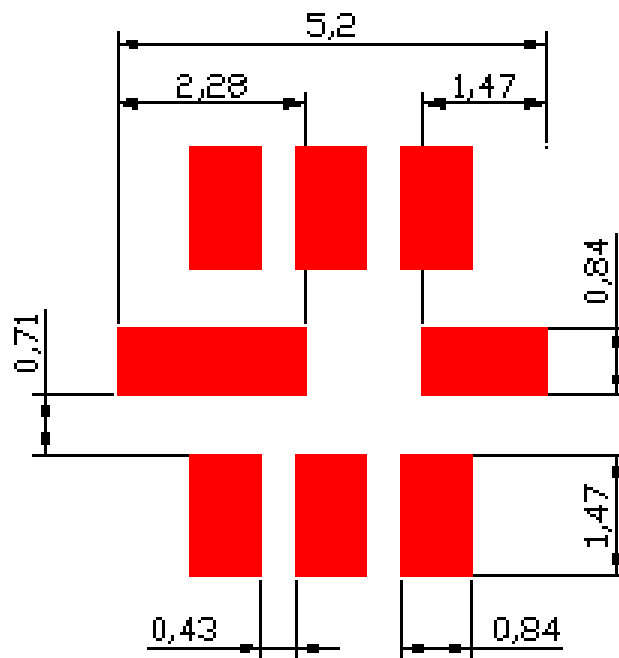
- #3 – Input
- #2 – Input ground
- #7 – Output
- #6 – Output ground
- #1,4,5,8 – Ground
- : Week Code
- Unit : mm
- △ : Product / Year Code

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| Year | 2013 2017 | 2014 2018 | 2015 2019 | 2016 2020 |
| Product Code | B | b | <u>B</u> | <u>b</u> |

Week Code Table

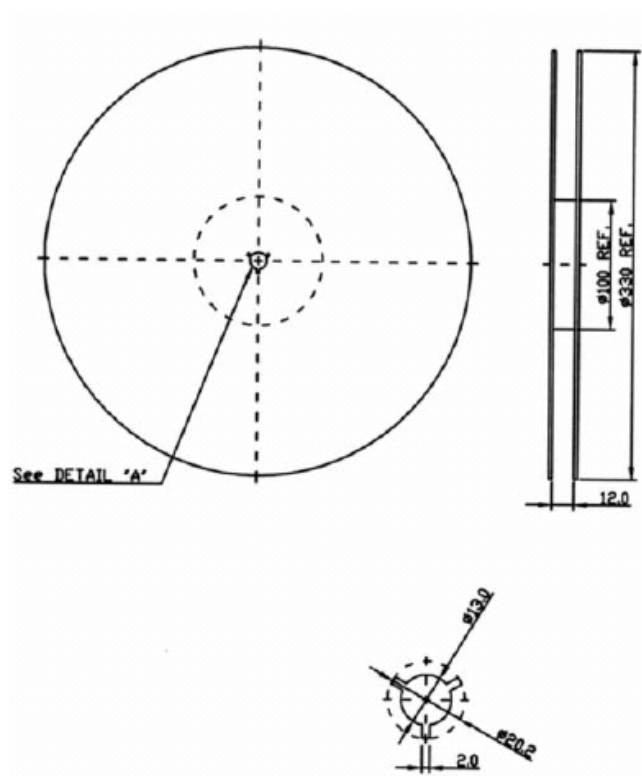
| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WK01 | WK02 | WK03 | WK04 | WK05 | WK06 | WK07 | WK08 | WK09 | WK10 | WK11 | WK12 | WK13 |
| A | B | C | D | E | F | G | H | I | J | K | L | M |
| WK14 | WK15 | WK16 | WK17 | WK18 | WK19 | WK20 | WK21 | WK22 | WK23 | WK24 | WK25 | WK26 |
| N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| WK27 | WK28 | WK29 | WK30 | WK31 | WK32 | WK33 | WK34 | WK35 | WK36 | WK37 | WK38 | WK39 |
| a | b | c | d | e | f | g | h | i | j | k | l | m |
| WK40 | WK41 | WK42 | WK43 | WK44 | WK45 | WK46 | WK47 | WK48 | WK49 | WK50 | WK51 | WK52 |
| n | o | p | q | r | s | t | u | v | w | x | y | z |

F. PCB Footprint:

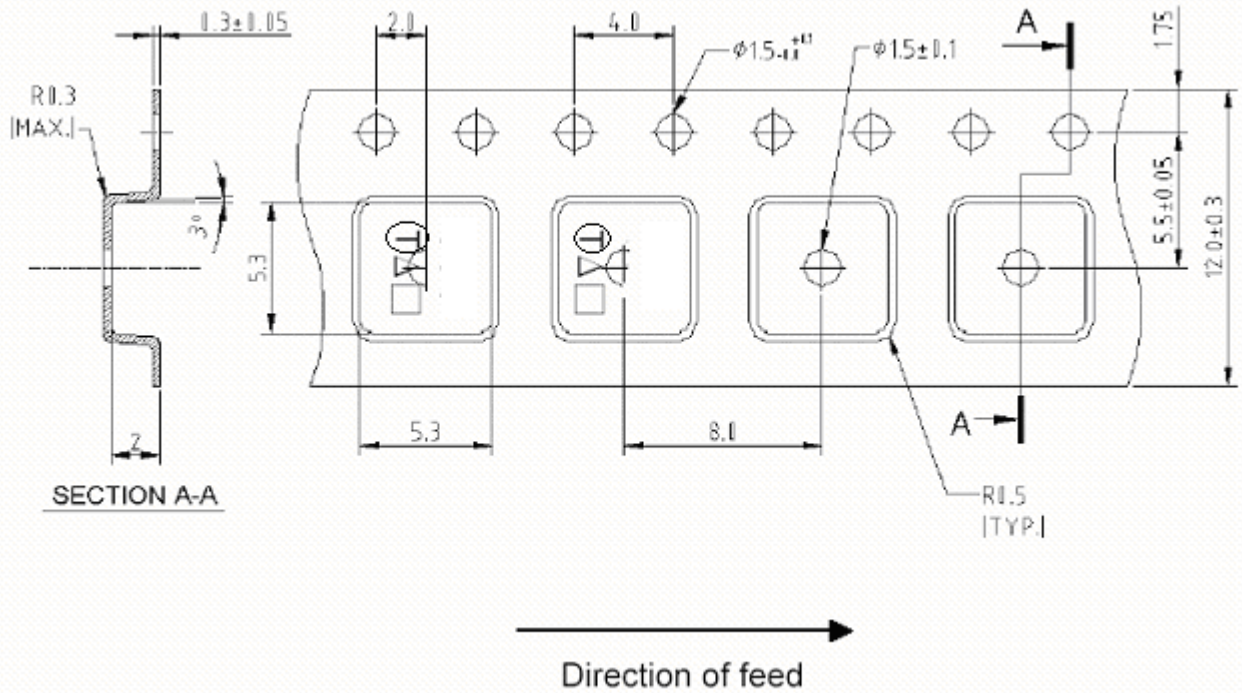


G. PACKING:

1. REEL DIMENSION: (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION:



H. RECOMMENDED REFLOW PROFILE:

