



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 243.875 MHz 0.13MHz BW SMD 3.0 x 3.0 mm SAW IF Filter

TST Parts No.: TB1277A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 06/16/2017

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 243.875 MHz 0.13MHz BW

Model No.: TB1277A

Rev. No: 1

A. MAXIMUM RATING:

1. Input Power Level: +5dB_m
2. Operating Temperature: -20°C to +85°C
3. Storage Temperature: -30°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

Parameters	Unit	Min.	Typical	Max.
Nominal Center frequency, Fo	MHz	-	243.875	-
Insertion Loss at Fo	dB	-	3.0	4.0
3 dB Bandwidth	KHz	260	521	-
Amplitude ripple, Fo ± 65 KHz	dB	-	0.50	1.2
Group delay ripple, Fo ± 65 KHz	μsec	-	0.25	1.2
Attenuation: refer to 243.95MHz				
Fo ± 600 KHz	dB	25	30	-
Fo ± 10.7 MHz	dB	40	60	-
Fo ± 21.4 MHz	dB	60	65	-

3. MATCHING CIRCUIT:

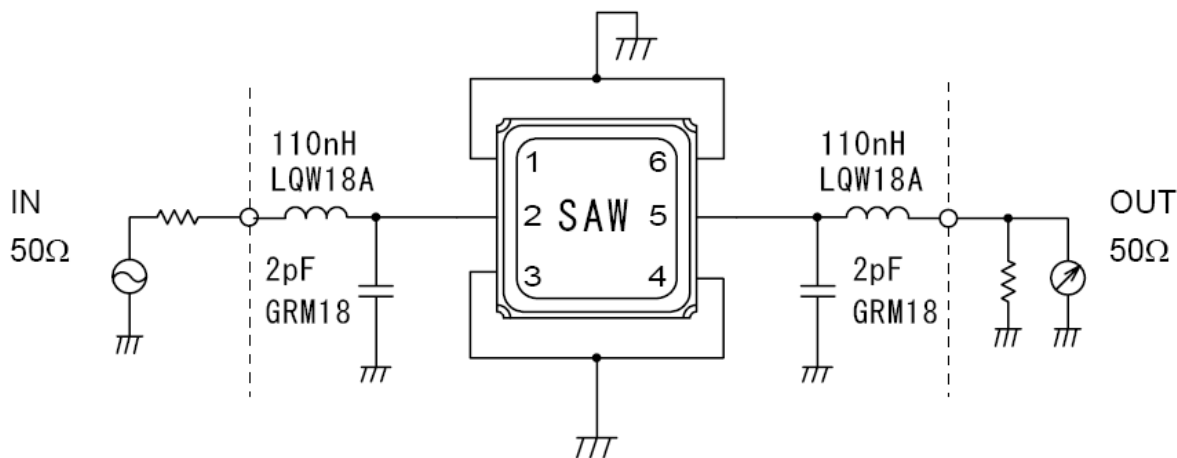
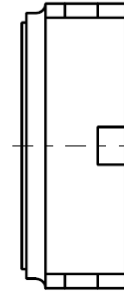
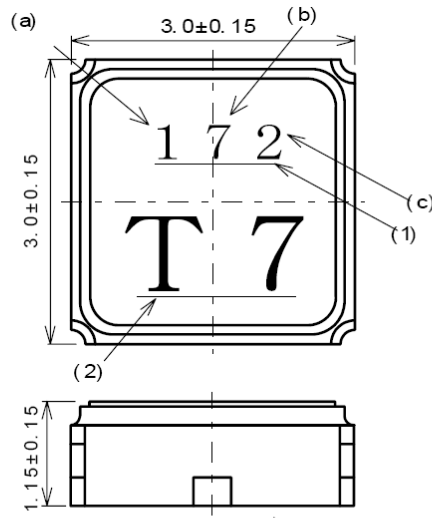


Fig.1 Measuring circuit

4. OUTLINE DRAWING:



Marking

(1) Lot Number

(a) Year

(b) Month

*Oct.--- X

Nov.--- Y

Dec.--- Z

(c) Date

1-9--- 0

10-19--- 1

20-31--- 2

(2) Part Number Mark

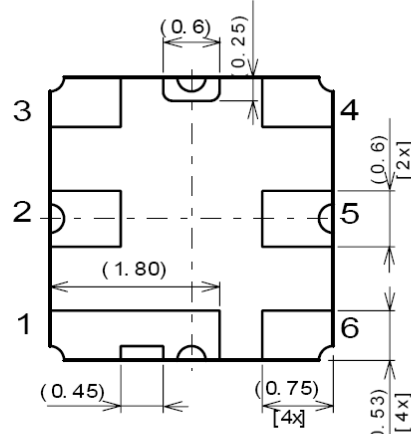


Fig.2 Package dimensions (in mm)

Pin no.	Connection
1	GND
2	IN/OUT
3	GND
4	GND
5	OUT/IN
6	GND

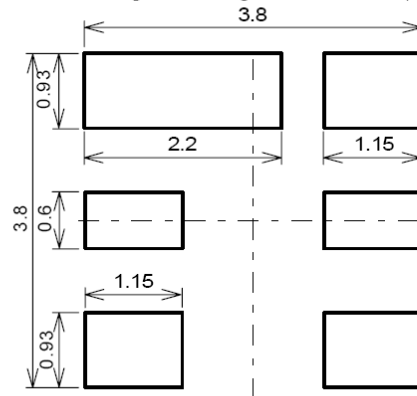


Fig.3 Desirable land area (in mm)

5. FREQUENCY CHARACTERISTICS:

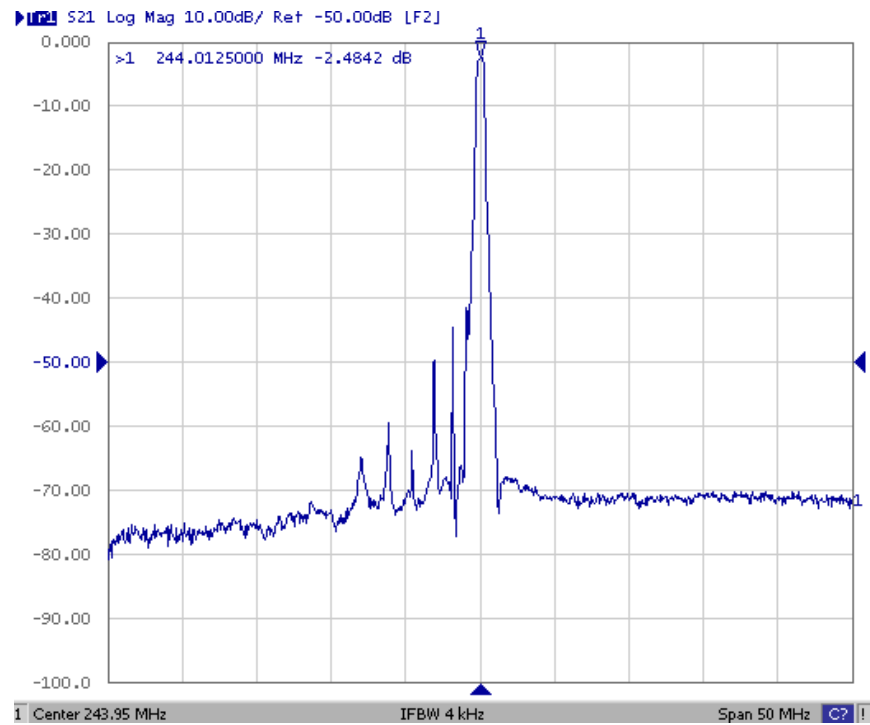


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

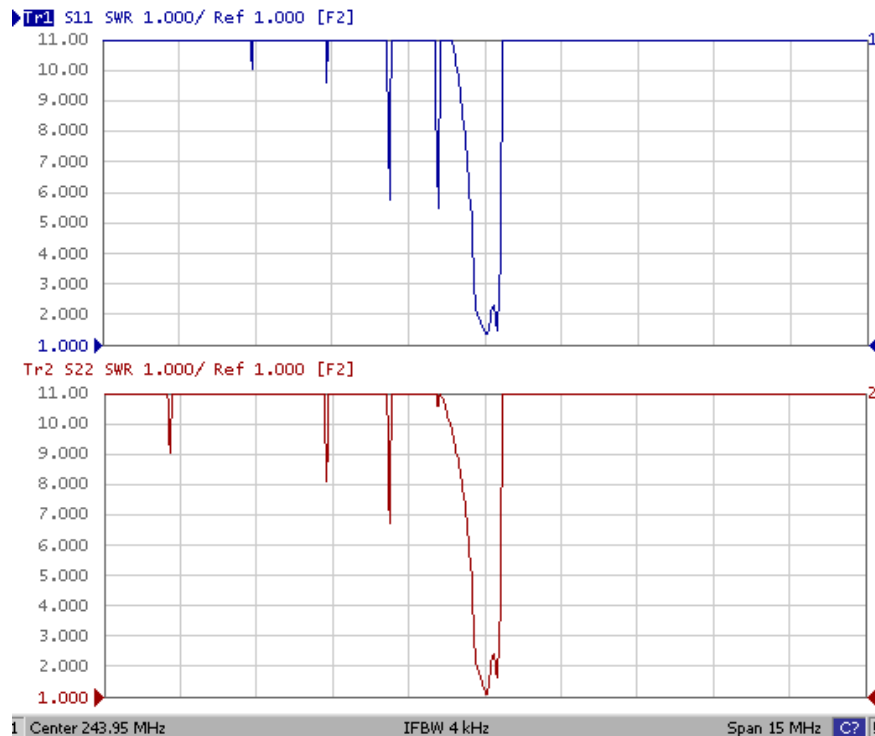


Fig2. Horizontal: 1.5MHz/Div Vertical: 1/Div

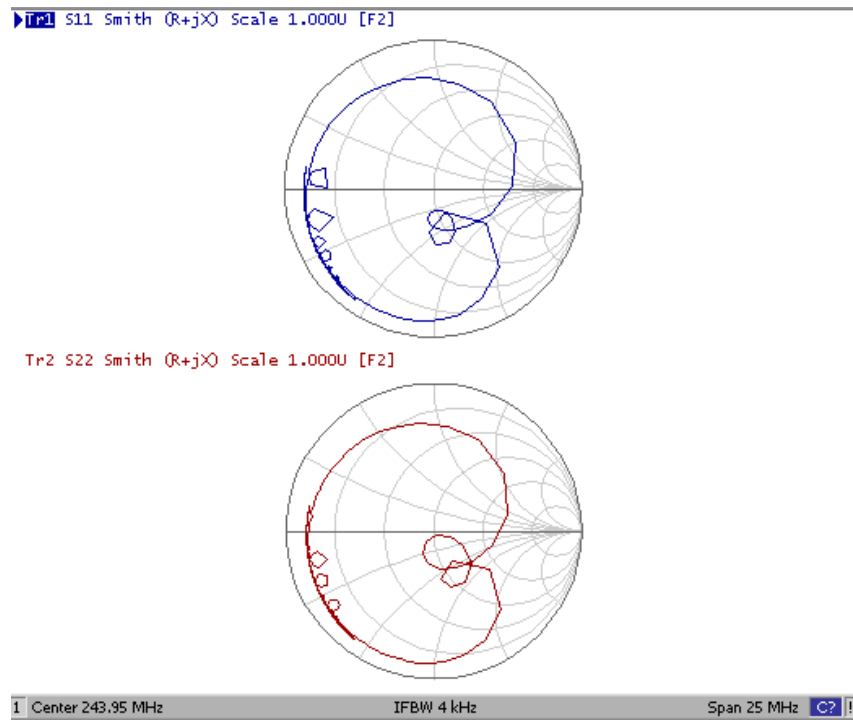


Fig4. Smith Chart (231.45MHz~256.45MHz)

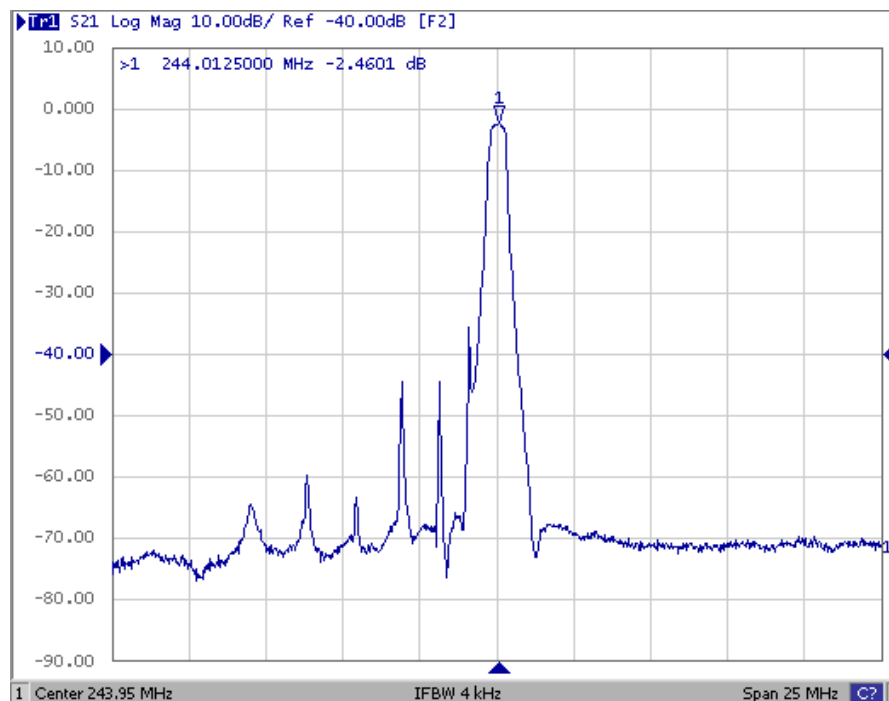


Fig5. Horizontal: 2.5MHz/Div Vertical: 10dB/Div

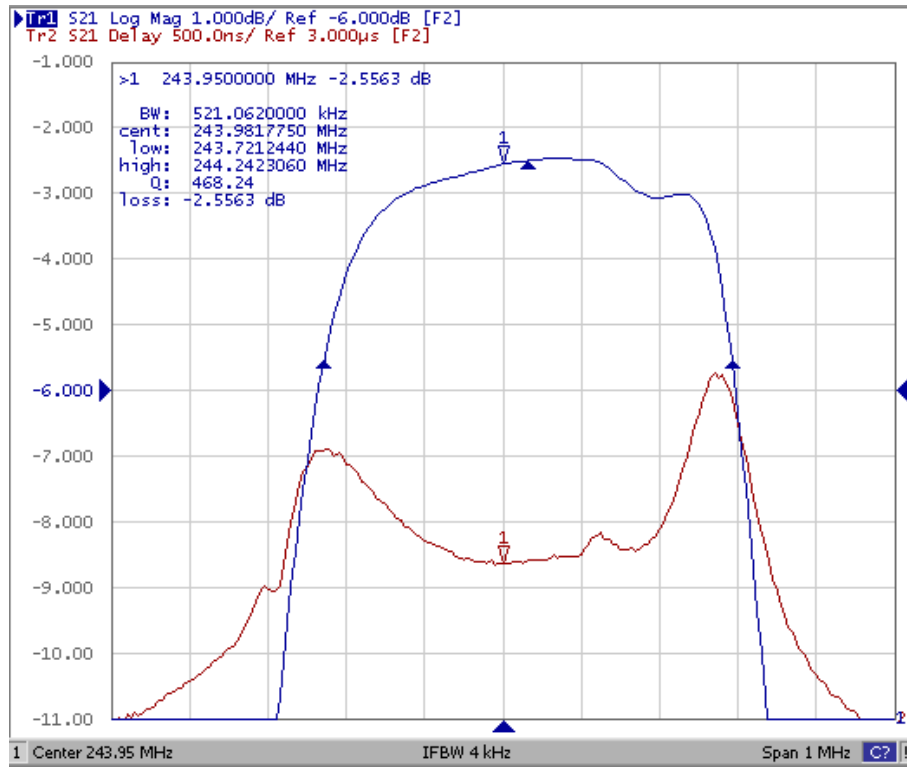
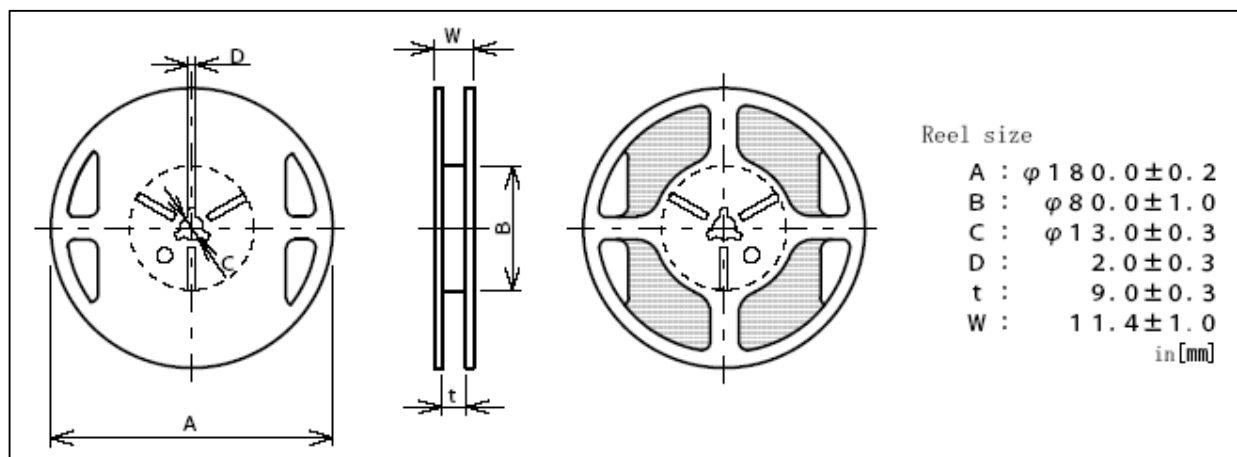


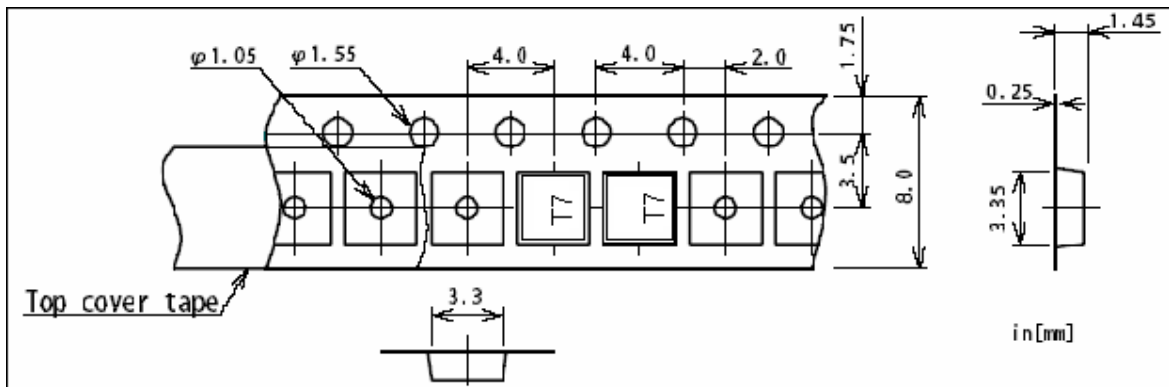
Fig6. Horizontal: 0.1MHz/Div Vertical: 1/dB/Div
Vertical: 500ns/Div

6. PACKING:

6.1. REEL DIMENSION



6.2. TAPE DIMENSION



7. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

