



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Product Specifications Approval Sheet

Issued Date:

Product Name: 243.95 MHz PHS IF SAW Filter

TST Parts No.: TB0252A(SMD 3.0×3.0 mm)

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

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

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

Approval by: \_\_\_\_\_ Andrew Lee 

Date: \_\_\_\_\_ 10 / 05 / 2009

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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243.95 MHz PHS IF SAW Filter (SMD 3.0×3.0 mm)

Model No.: TB0252A

Rev. No: 3

## 1. Maximum Rating:

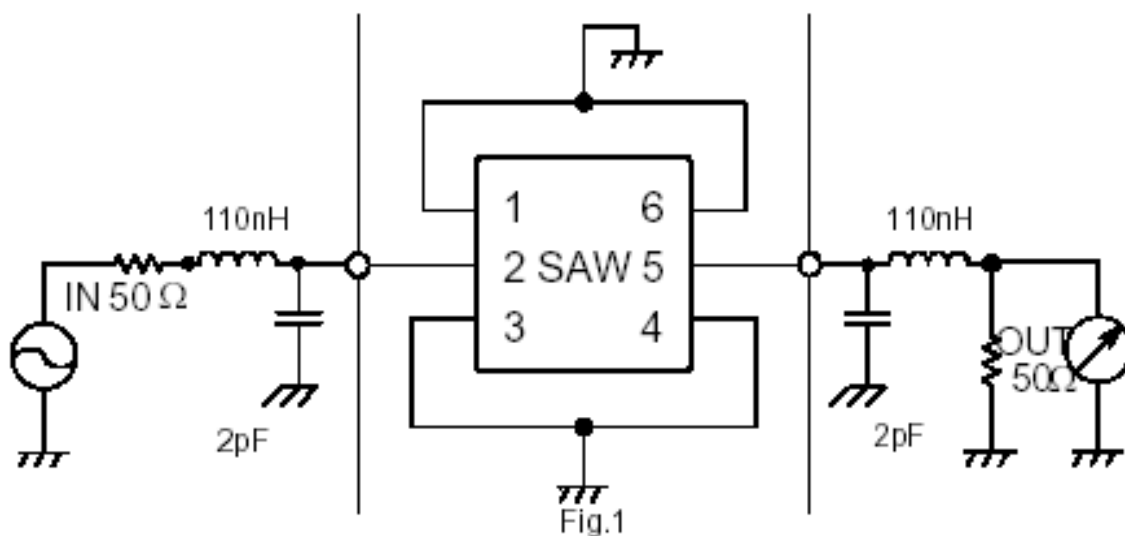
1. Input Power Level: +5dB<sub>m</sub>
2. Operating Temperature: -10°C to +60°C
3. Storage Temperature: -30°C to +85°C

RoHS Compliant  
Lead free  
Lead-free soldering

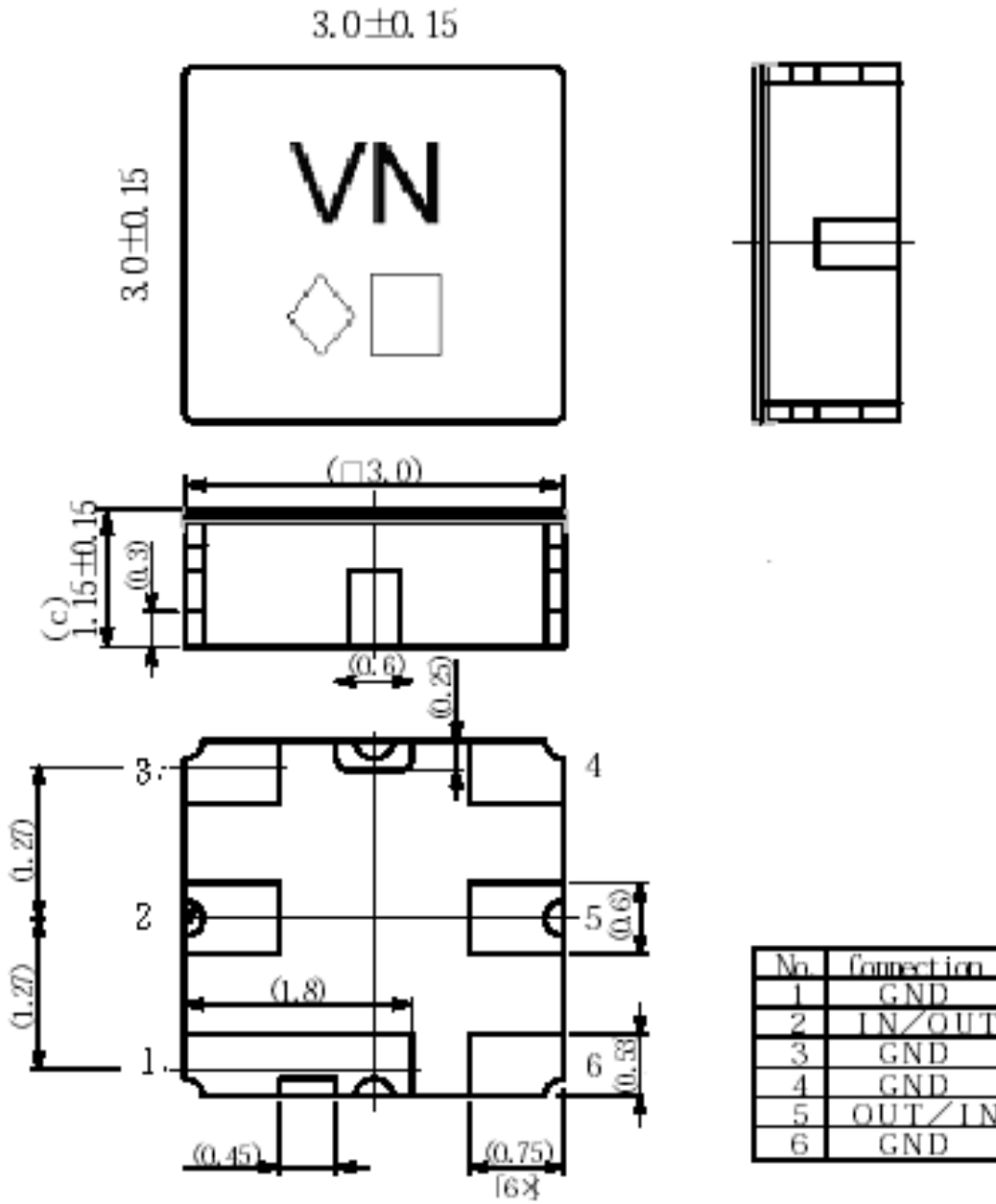
## 2. Electrical Characteristics:

Parameters	Unit	Min.	Typical	Max.
Nominal Center frequency, Fo	MHz	-	243.95	-
Insertion Loss at Fo	dB	-	3.0	4.0
3 dB Bandwidth	KHz	-	260	-
Amplitude ripple, Fo ± 100 KHz	dB		0.45	1.0
Group delay ripple, Fo ± 100 KHz	μsec	-	0.45	1.0
Attenuation:				
Fo ± 600 KHz	dB	25	30	-
Fo ± 10.7 MHz	dB	40	60	-
Fo ± 21.4 MHz	dB	60	65	-

## 3. Measurement Circuit:



4. Outline Drawing:



◇: Year code

□: Date code

## 5. Frequency Characteristics:

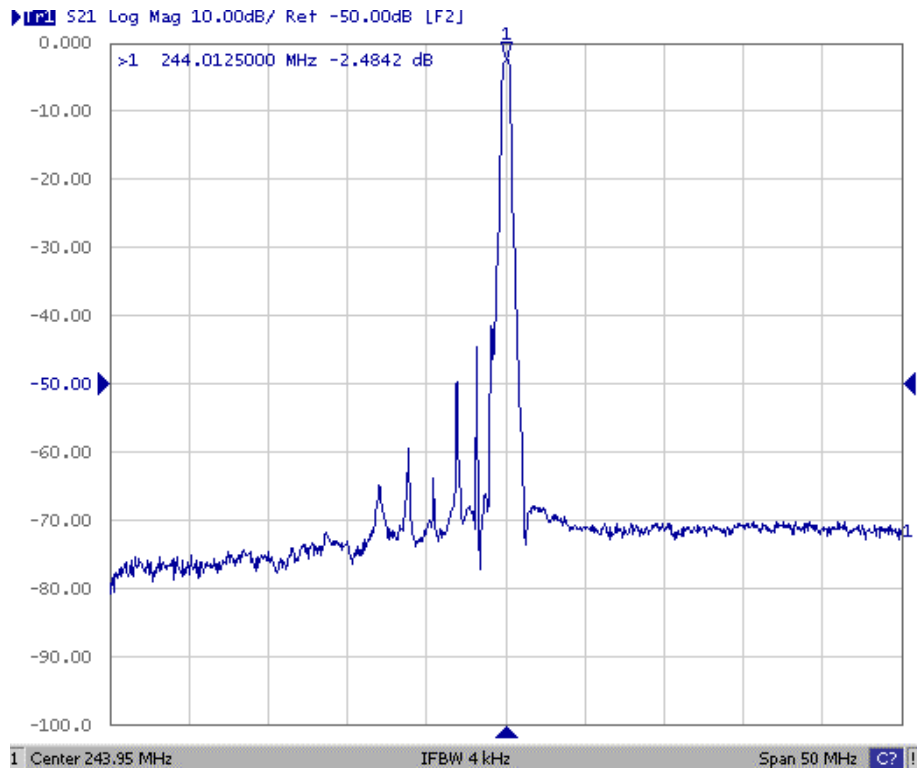


Fig1. Horizontal: 5MHz/Div Vertical: 10dB/Div

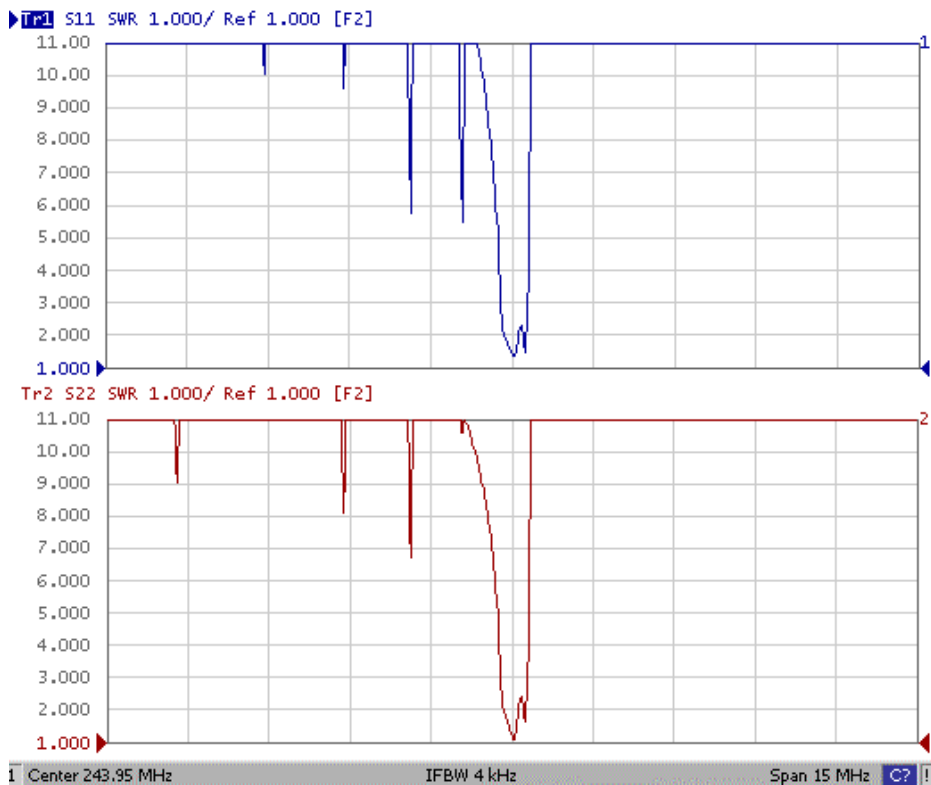


Fig2. Horizontal: 1.5MHz/Div Vertical: 1/Div

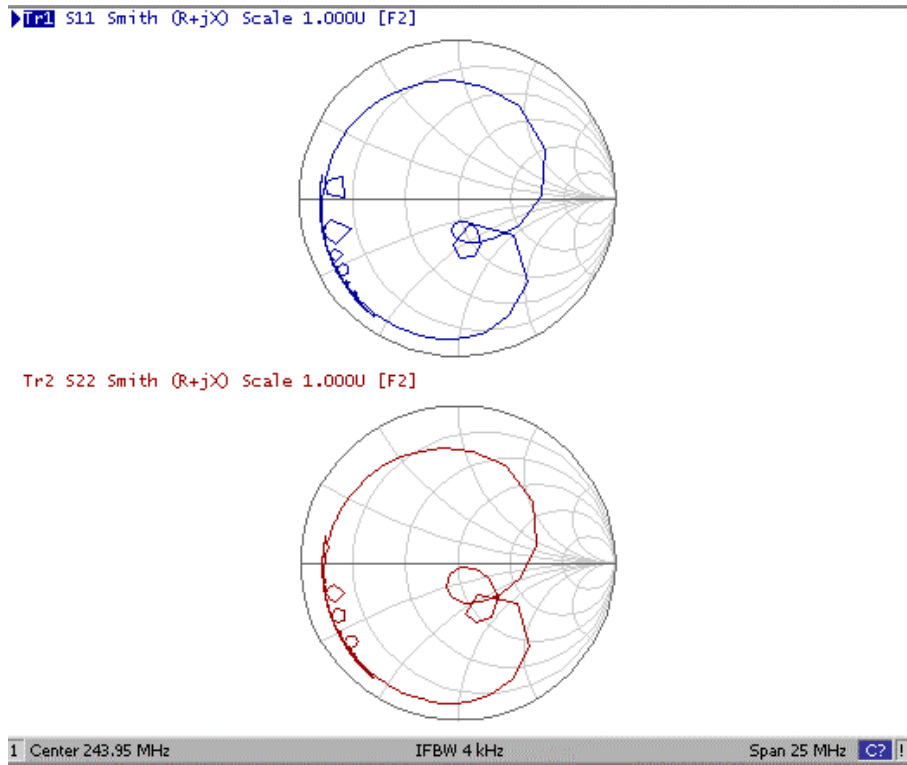


Fig4. Smith Chart (231.45MHz~256.45MHz)

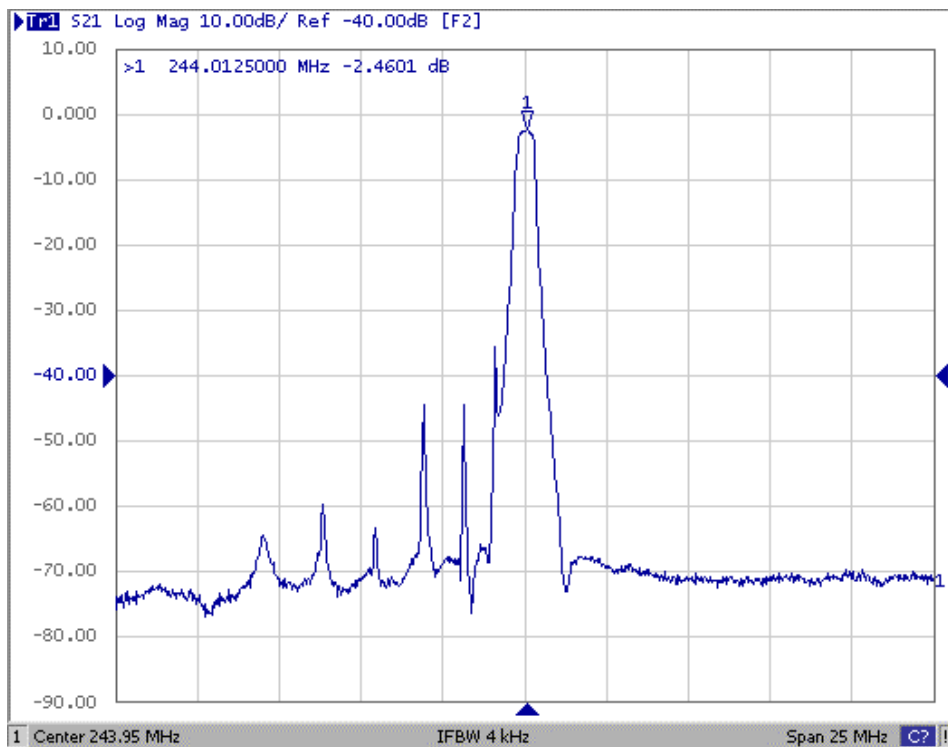


Fig5. Horizontal: 2.5MHz/Div Vertical: 10dB/Div

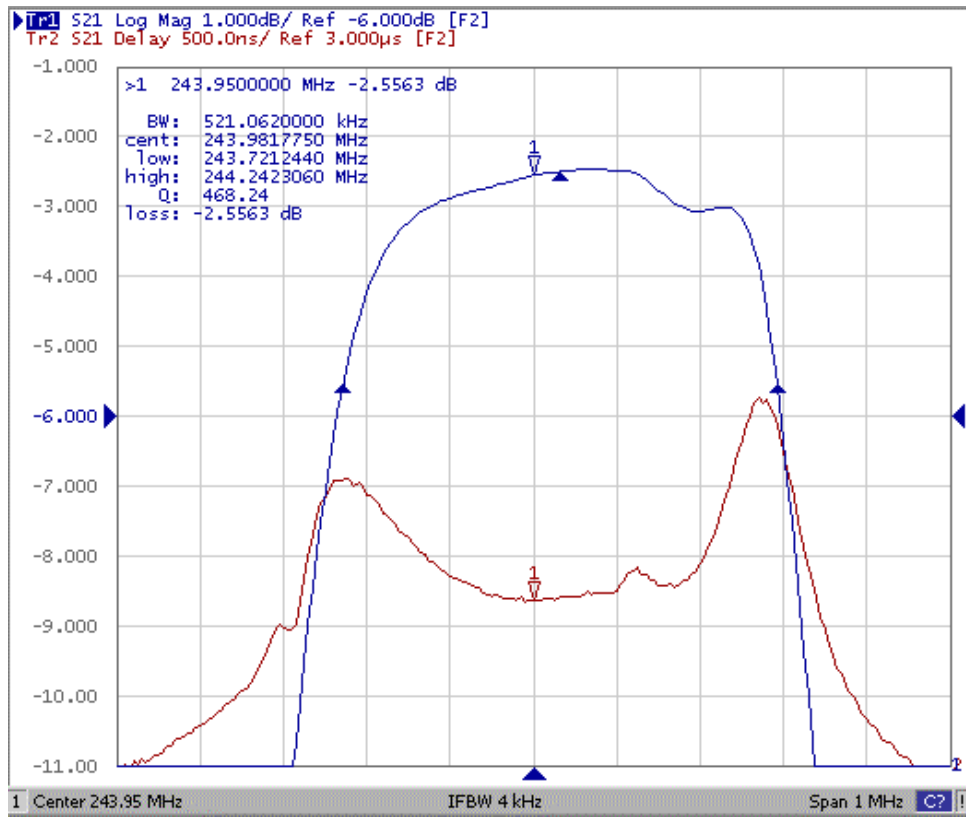
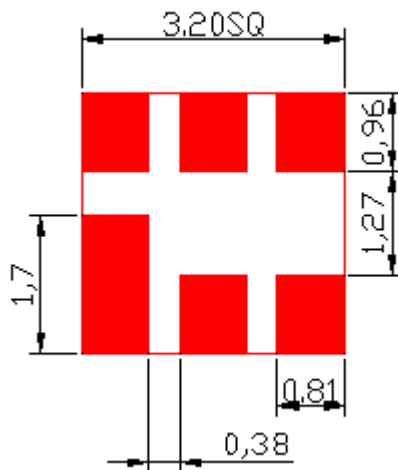


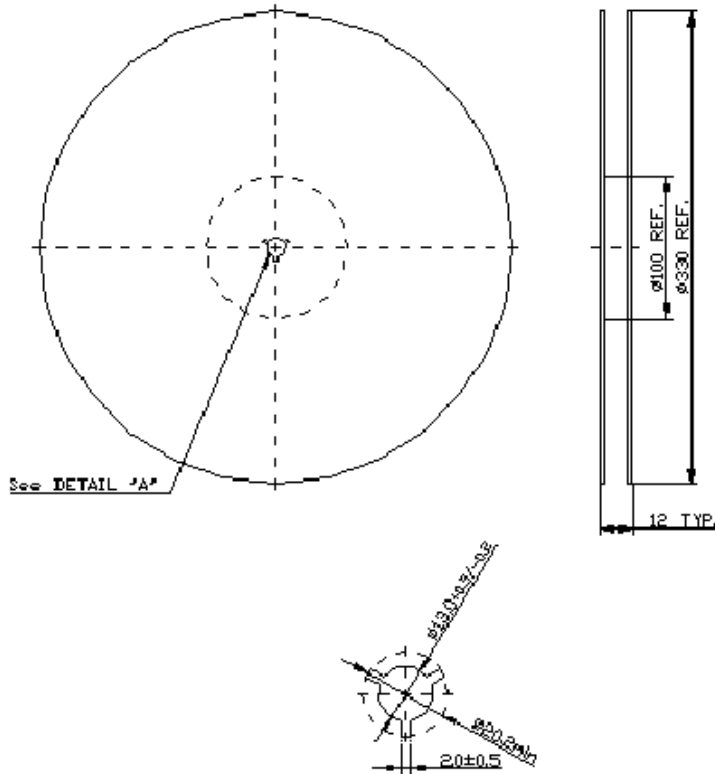
Fig6. Horizontal: 0.1MHz/Div Vertical: 1/dB/Div  
Vertical: 500ns/Div

## 6. PCB Footprint:



## 7. Packing:

### 7.1. REEL DIMENSION



### 7.2. TAPE DIMENSION

