



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: 140MHz IF SAW Filter (BW=12.0 MHz)

TST Parts No.: TB0232A

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

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: Kazuma Lee 

Approval by: Francis Chen 

Date: 2008, 08, 18



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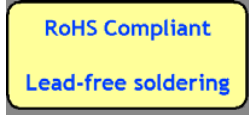
E-mail: [tstsales3@mail.taisaw.com](mailto:tstsales3@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

140 MHz IF SAW Filter (DIP 20.2×12.6 mm)

Model No.: TB0232A

Rev. No.:3

## A. Maximum Rating:



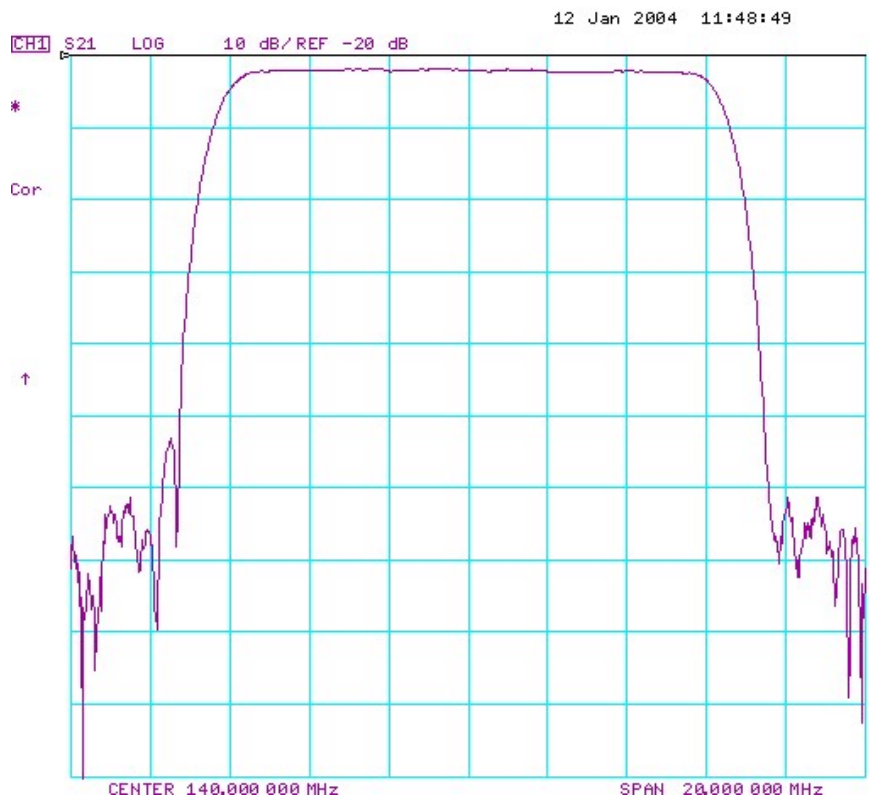
1. Input Power Level: +20 dB<sub>m</sub>
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

## B. Electrical Characteristics:

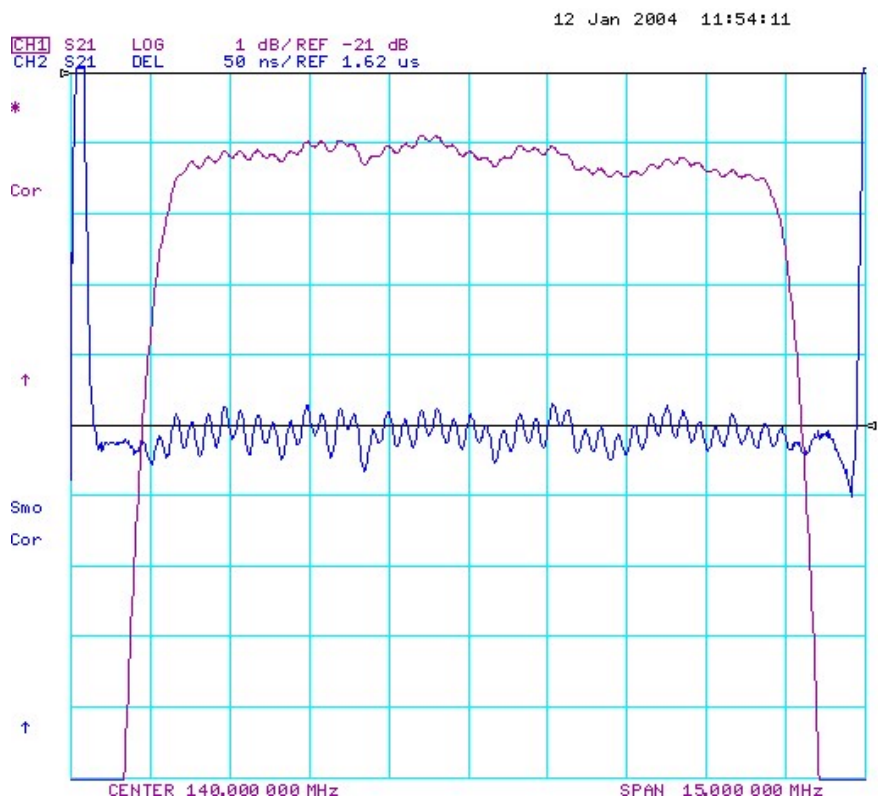
Parameters	Unit	Min.	Typical	Max.
Center frequency, <b>F<sub>c</sub></b>	MHz	139.9	140.0	140.1
Insertion Loss, <b>IL</b>	dB	-	22.3	25.0
1 dB Bandwidth	MHz	11.2	11.6	-
3 dB Bandwidth	MHz	12.0	12.24	-
40 dB Bandwidth	MHz	-	14.56	15.0
Relative Attenuation:				
10 to 130 MHz	dB	40	55	-
150 to 280 MHz	dB	40	55	-
Amplitude ripple within $F_c \pm 5$ MHz	dB	-	0.6	0.75
Group delay ripple within $F_c \pm 5$ MHz	nsec	-	45	90
Absolute Delay	usec	-	1.62	-
Substrate Material	-	-	LN	-

### C. Frequency Characteristics:

#### (1) Frequency Response

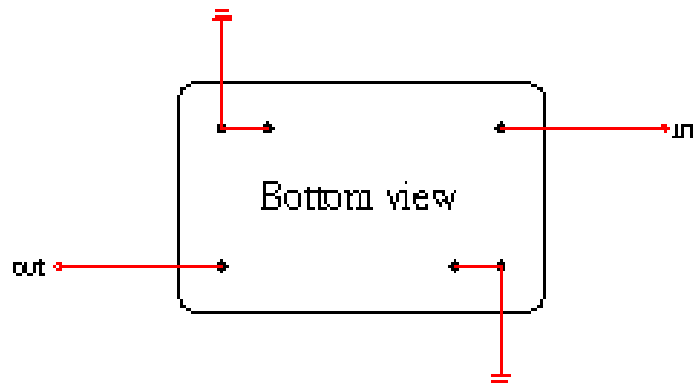


#### (2) Passband response and Group Delay Variation

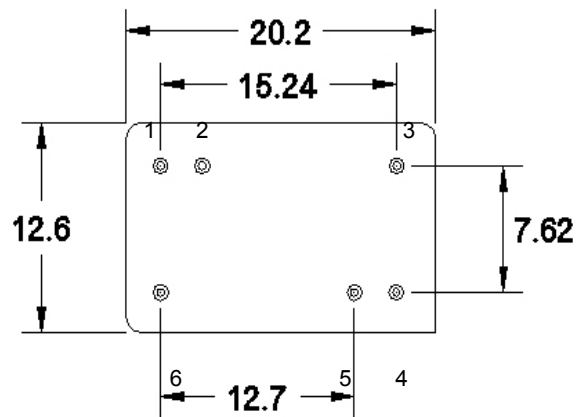
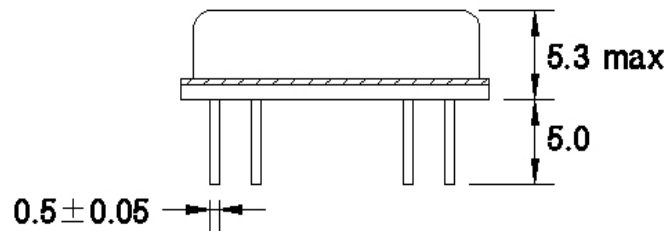
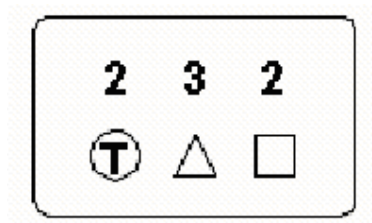


**D. Measurement Circuit:**

Source and load impedance:  $50\ \Omega$



**E. Outline Drawing:**



Pin 3: Balanced Input + or single ended input  
 Pin 4: Balanced Input – or single ended input ground  
 Pin 6: Balanced output + or single ended input output  
 Pin 1: Balanced output – or single ended output ground  
 Pin2,5:To be Ground  
 □ : Week Code  
 Unit : mm  
 △ : Product / Year Code

Year	2005 2009	2006 2010	2007 2011	2008 2012
Product Code	B	b	<u>B</u>	<u>b</u>