



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet for Product Specification

Issued Date:

Product Name: 140MHz IF SAW Filter (BW=25.0 MHz)

TST Parts No.: TB0233A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 2008, 08, 18



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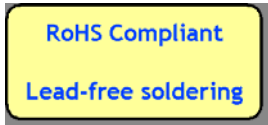
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140 MHz IF SAW Filter (DIP 20.2×12.6 mm)

Model No.: TB0233A

Rev. No.:3

A. Maximum Rating:



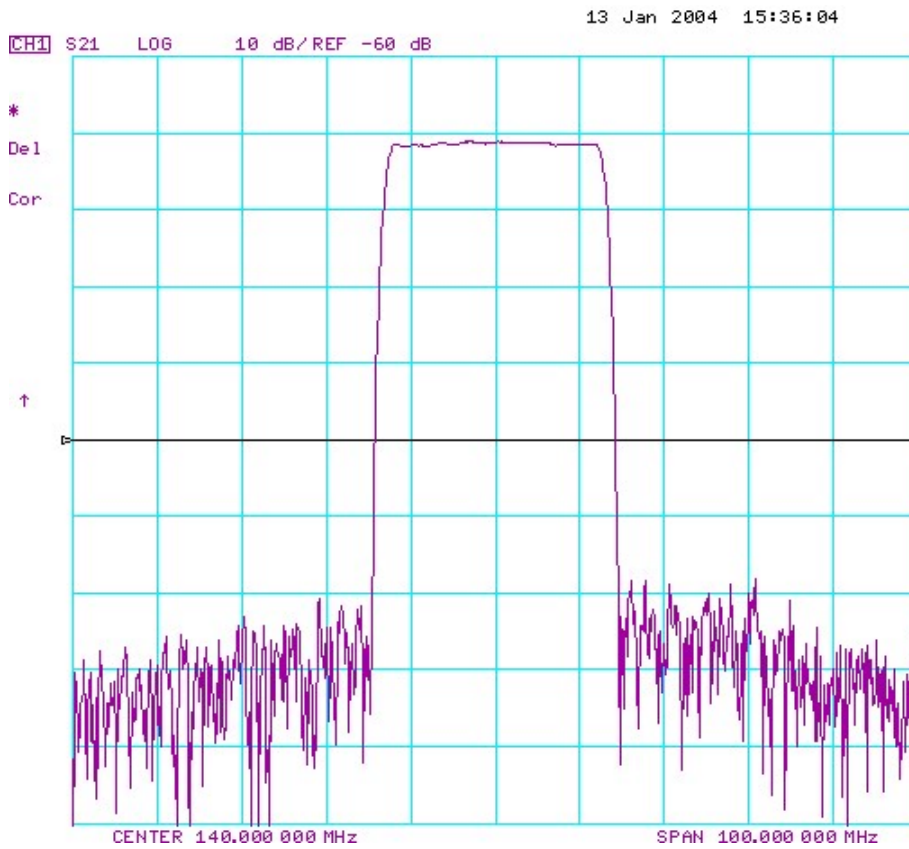
1. Input Power Level: +20 dB_m
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

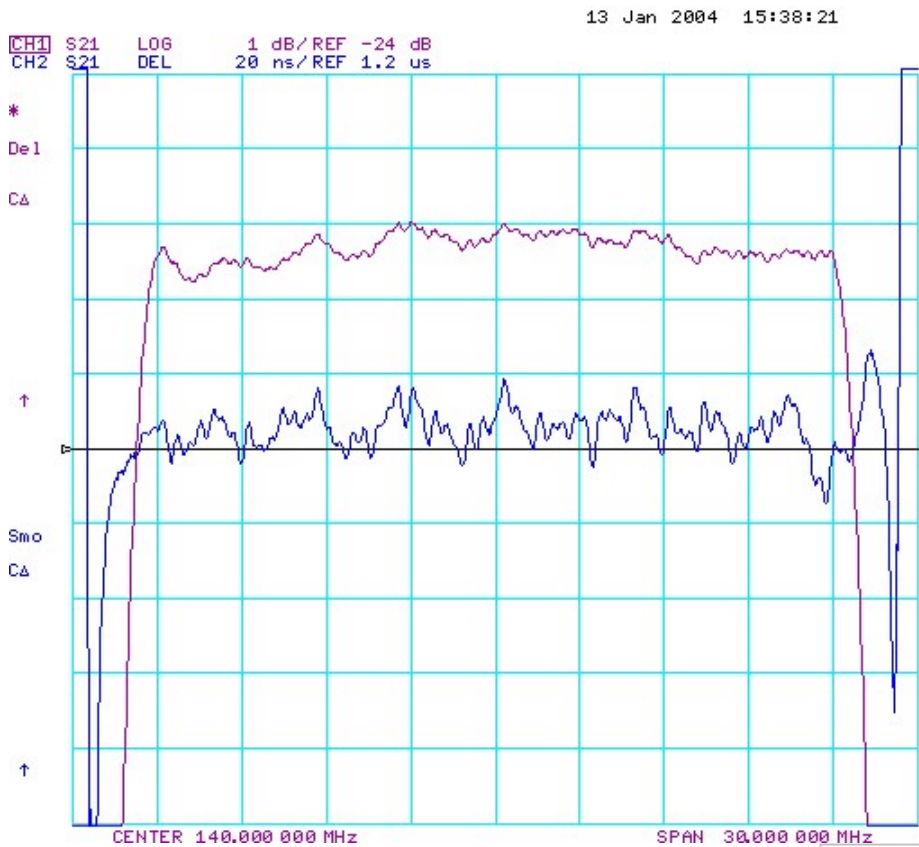
Parameters	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	139.9	140.0	140.1
Insertion Loss, IL	dB	-	21.5	24.0
1 dB Bandwidth	MHz	24.3	24.6	-
3 dB Bandwidth	MHz	25.0	25.5	-
40 dB Bandwidth	MHz	-	28.5	30.0
Relative Attenuation:				
10 to 120 MHz	dB	50	55	-
160 to 280 MHz	dB	50	55	-
Amplitude ripple within $F_c \pm 10$ MHz	dB	-	0.7	1.0
Group delay ripple within $F_c \pm 10$ MHz	nsec	-	30	100
Absolute Delay	usec	-	1.20	-
Substrate Material	-	-	LN	-

C. Frequency Characteristics:

(1) Frequency Response

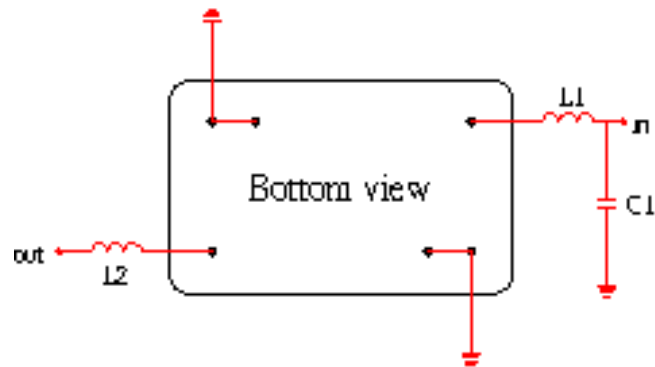


(2) Passband response and Group Delay Variation



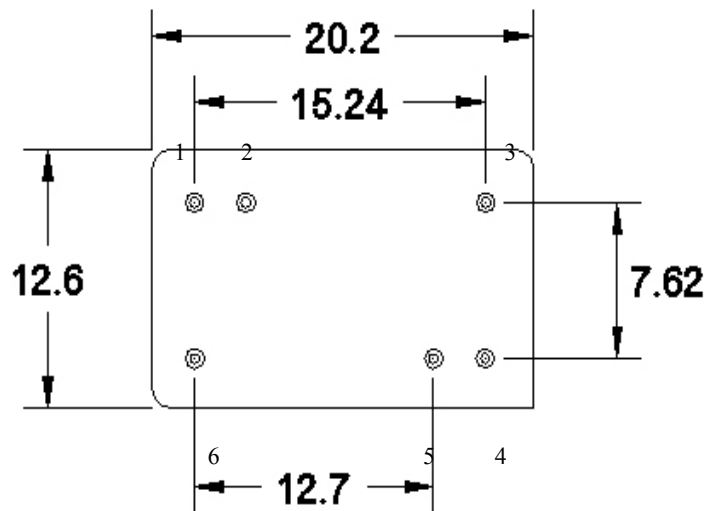
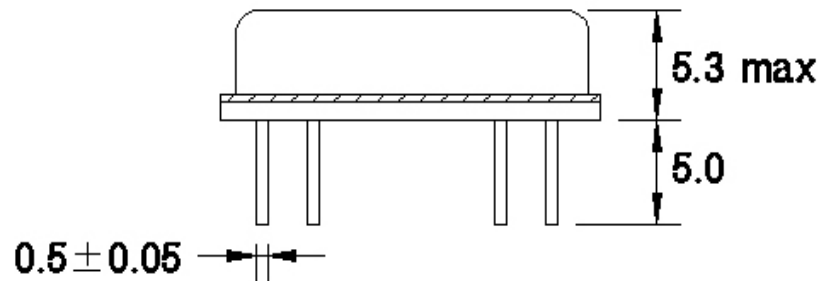
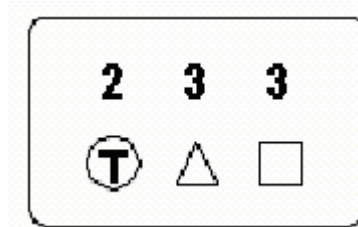
D. Measurement Circuit:

Source and load impedance: 50Ω



$L1=56 \text{ nH}$, $C1=18 \text{ pF}$, $L2=56 \text{ nH}$

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>