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Approval Sheet for Product Specification

Issued Date:

Product Name: 70MHz IF SAW Filter (BW=12.1 MHz)

TST Parts No.: TB0229A

Customer Parts No.: _____

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

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 2008, 08, 18



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

Model No.: TB0229A

Rev. No.:3

A. Maximum Rating:



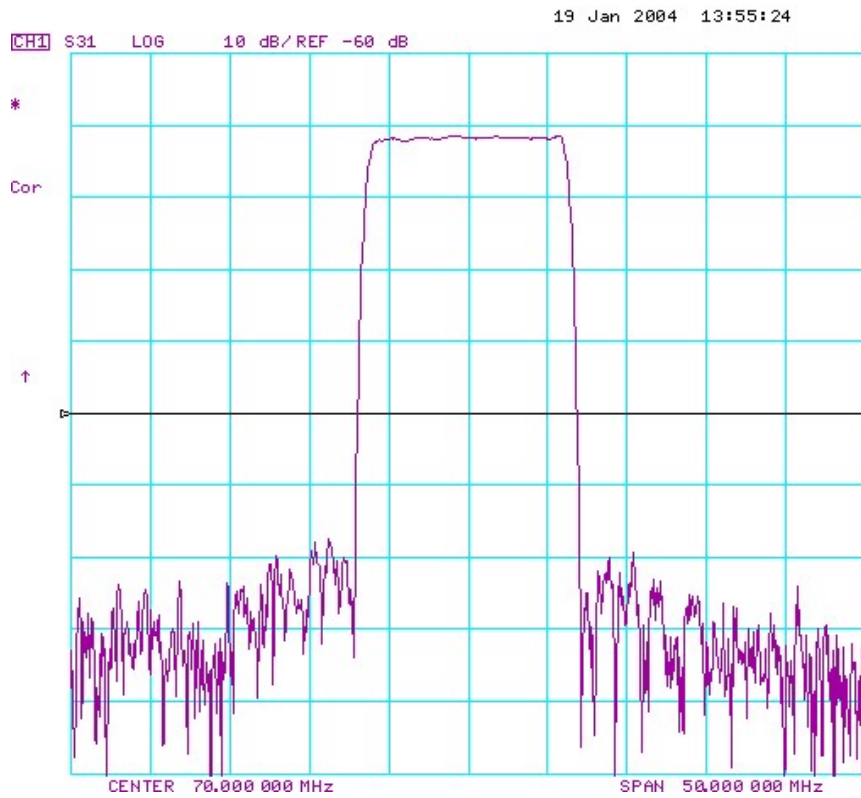
1. Input Power Level: +20 dB_m
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

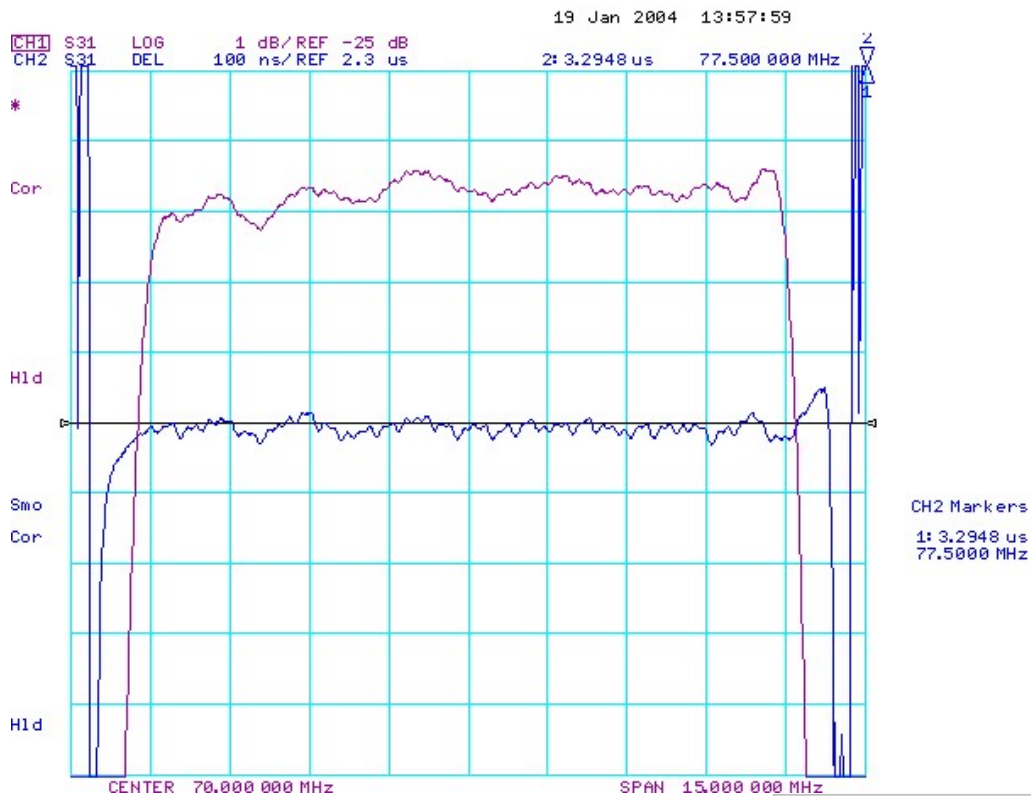
Parameters	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	69.9	70.0	70.1
Insertion Loss, IL	dB	-	23.0	26.0
1 dB Bandwidth	MHz	11.6	12.01	-
3 dB Bandwidth	MHz	12.1	12.39	-
40 dB Bandwidth	MHz	-	13.87	14.5
Relative Attenuation:				
10 to 62 MHz	dB	50	55	-
78 to 140 MHz	dB	50	55	-
Amplitude ripple within $F_c \pm 4.5$ MHz	dB	-	0.8	1.0
Group delay ripple within $F_c \pm 4.5$ MHz	nsec	-	40	70
Absolute Delay	usec	-	2.28	-
Substrate Material	-	-	LN	-

C. Frequency Characteristics:

(1) Frequency Response

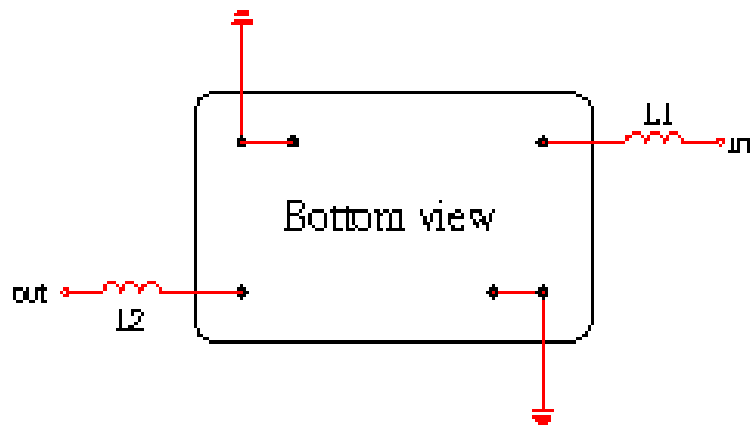


(2) Passband response and Group Delay Variation



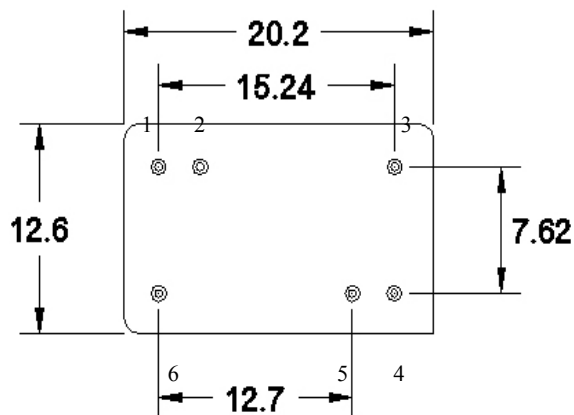
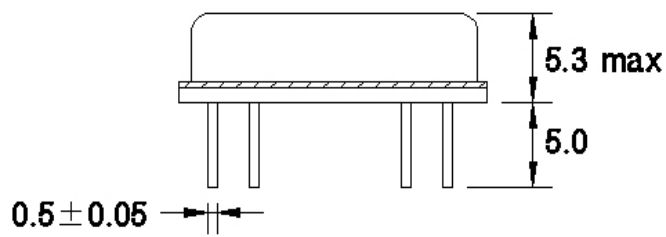
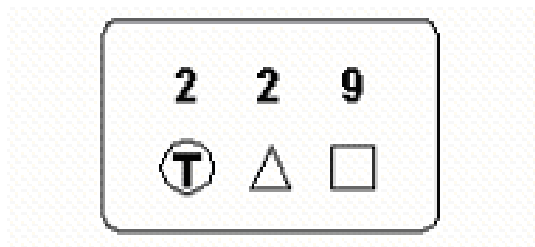
D. Measurement Circuit:

Source and load impedance: 50Ω



$L1=150 \text{ nH}$, $L2=3.3 \text{ nH}$

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>