



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: Low-Loss 70MHz IF SAW Filter (BW=20 MHz)

TST Parts No.: TB0202A

Customer Parts No.: _____

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

Checked by: _____ Andy Yu

Approval by: _____ Francis Chen

Date: _____ 08. 02. 2006



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Low-Loss 70 MHz IF SAW Filter (SMD 13.3x6.5 mm)

Model No.: TB0202A

Rev. No.:3.0

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

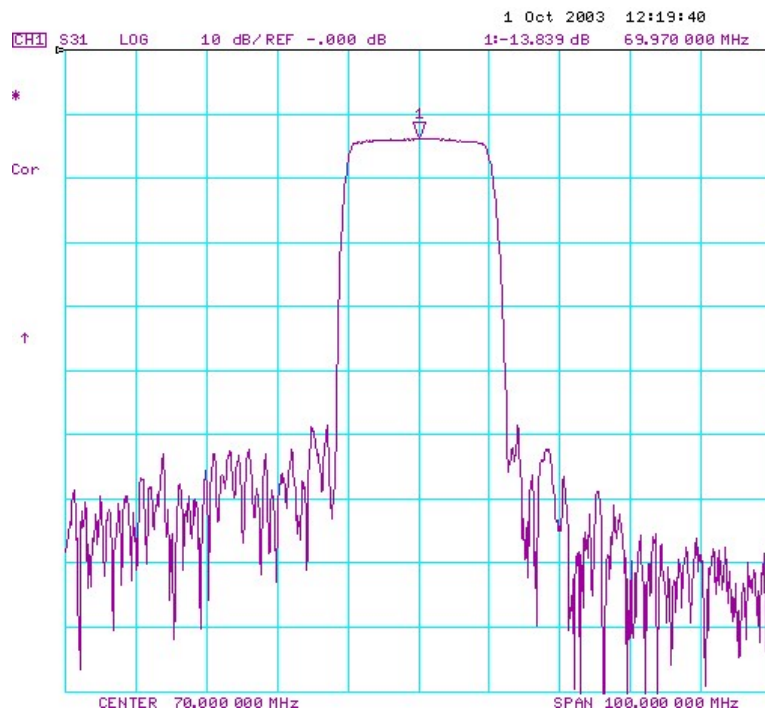
RoHS Compliant
Lead free
Lead-free soldering

B. Electrical Characteristics:

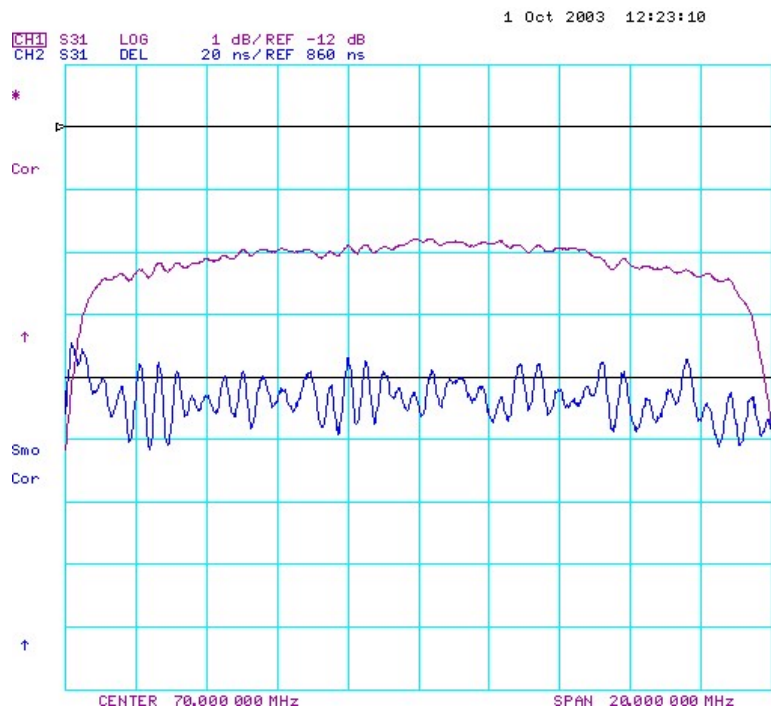
Parameters	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	69.8	70	70.2
Insertion Loss, IL	dB	-	13.8	15
1 dB Bandwidth	MHz	18.3	18.5	-
3 dB Bandwidth	MHz	19.7	19.9	-
40 dB Bandwidth	MHz	-	24.1	25.5
Relative Attenuation:				
10 to 57 MHz	dB	40	45	-
83 to 140 MHz	dB	40	45	-
Amplitude ripple within $F_c \pm 8.2$ MHz	dB	-	0.7	1.0
Group Delay ripple within $F_c \pm 8.2$ MHz	nsec	-	30	50
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

C. Frequency Characteristics:

(1) Frequency Response



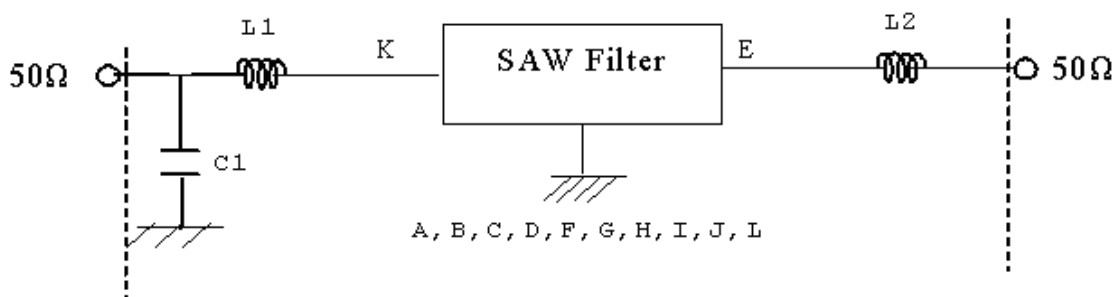
(2) Passband response and Group Delay Variation



D. Measurement Circuit:

Source and load impedance: 50 Ω

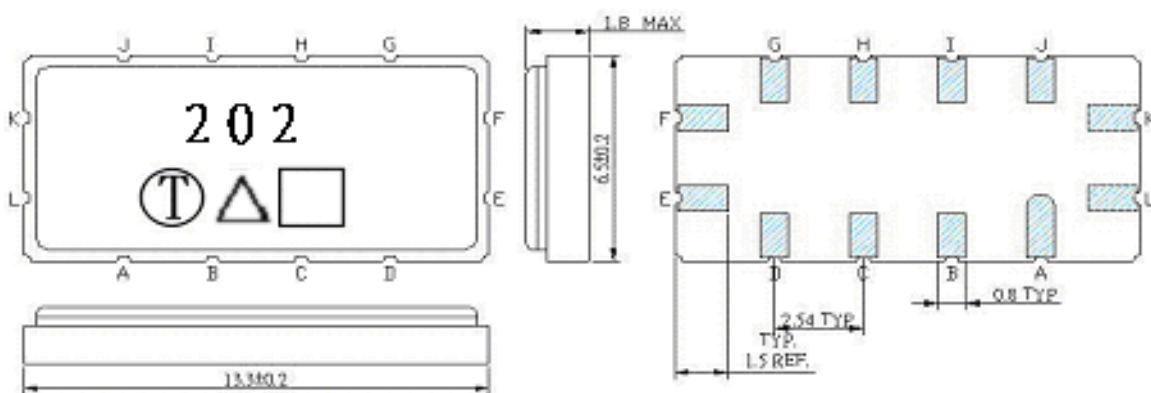
Network analyzer



put: L1=100+39 nH, Q>40; C1=47 pF
Output: L2=220+22 nH, Q>40

In

E. Outline Drawing:



Unit: mm

Pin K=L: RF input

Pin E=F: RF output

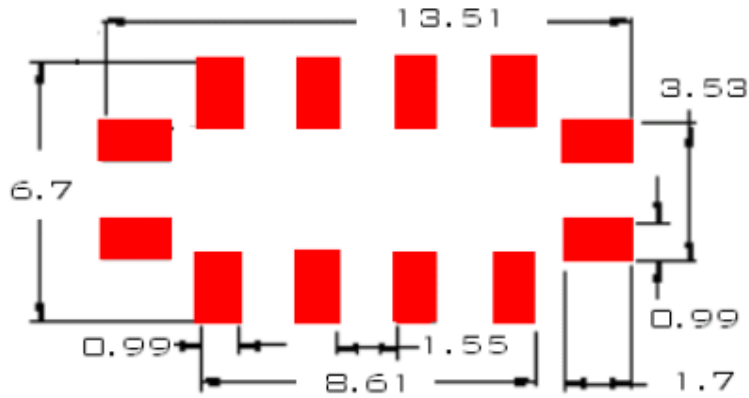
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

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

F. PCB Footprint:



G. Recommended Reflow Profile:

