TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
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Approval Sheet For Product Specification

Issued Date:

Product Name: High Attenuation 70MHz IF SAW Filter (BW=3.5MHz)

TST Parts No.: TB0184A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Vincent Chiu

Approval by: Francis Chen

Date: 22 Oct. 2003

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High Attenuation 70 MHz IF SAW Filter (SMD 13.3×6.5 mm)
Model No.: TB0184A Rev. No.:1

RoHS Compliant
Lead free
Lead-free soldering

A. Maximum Rating:

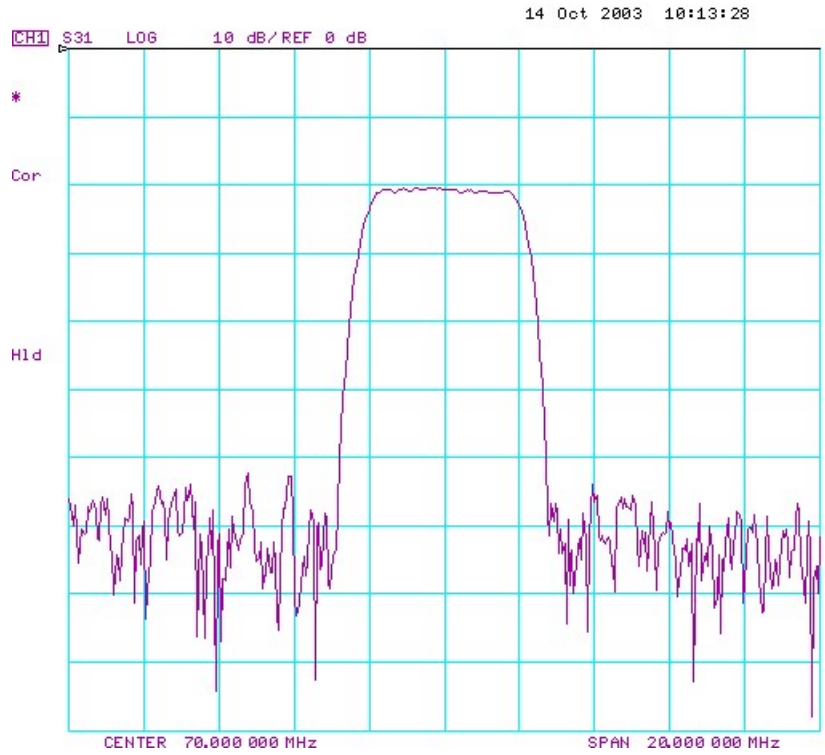
1. Input Power Level: +20 dB_m
2. Operating Temperature: 0°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

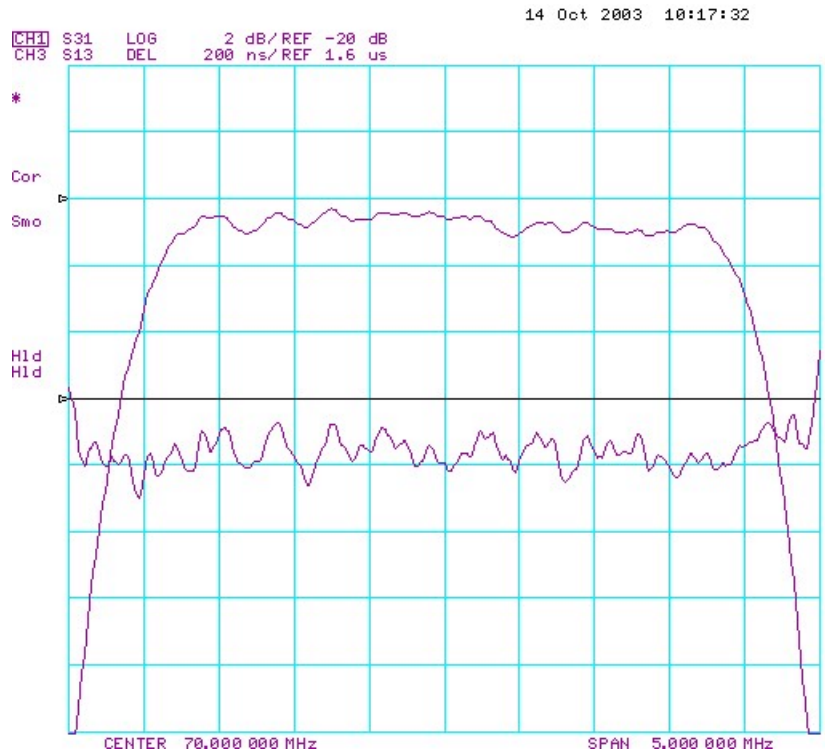
Parameter	Unit	Min.	Typ.	Max.
Center frequency, **Fc**	MHz	69.8	70	70.2
Insertion Loss, **IL**	dB	-	21	23
1 dB Bandwidth	MHz	3.5	3.75	-
3 dB Bandwidth	dB	3.8	4.1	-
40 dB Bandwidth	MHz	-	5.5	5.75
Amplitude ripple (68.6MHz~71.4MHz)	dB	-	0.75	1
Phase Linearity (68.5MHz~71.5MHz) (rms)	deg	-	3.5	6
Group Delay ripple (68.5MHz~71.5MHz)	nsec	-	120	150
Absolute Delay	μsec	-	1.4	-
Attenuation (Reference level from 0 dB)				
10 ~ 56MHz	dB	55	63	-
84~140MHz	dB	55	63	-
Substrate Material	-	-	LT	-
Temperature Coefficient	ppm/ °C	-	-18	-
Ambient Temperature	°C	-	25	-

C. Frequency Characteristics:

(1) S21 Response:

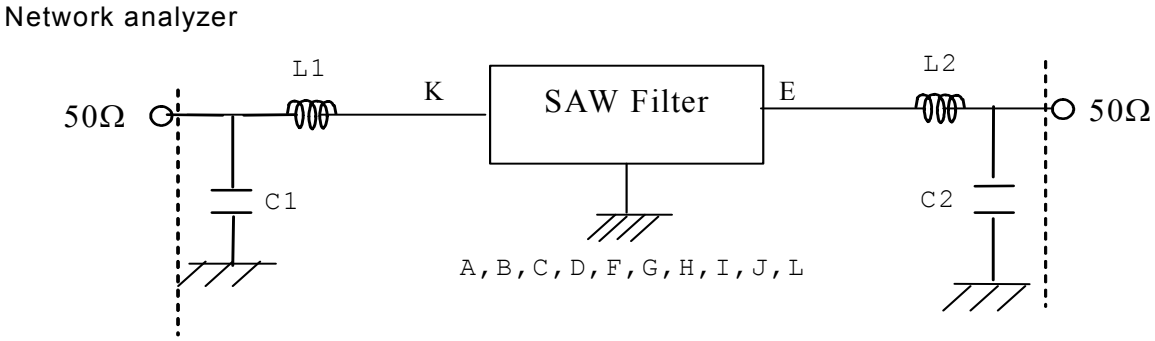


(2) Group Delay and Ripple



D. Measurement Circuit:

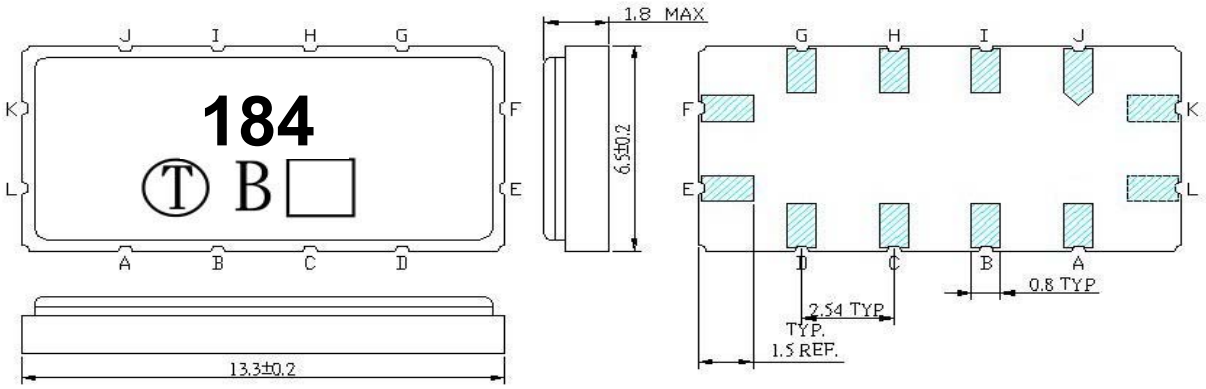
For 50 ohm Unbalanced Input and Output



Input: L1=200 nH, Q>40; C1=33 pF

Output: L2=68 nH, Q>40; C2=82 pF

E. Outline Drawing:



Unit: mm

Pin K: RF Input

Pin E: RF Output

Pin L: Input Ground

Pin F: Output Ground

Pin A, B, C, D, G, H, I, J: To be Ground

□: Date code