



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=16 MHz)

TST Parts No.: TB0214A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Vincent Chiu

Approval by: _____ Francis Chen

Date: _____ 03 Nov. 2003



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

Model No.: TB0214A

Rev. No.:1

A. Maximum Rating:

RoHS Compliant
Lead free
Lead-free soldering

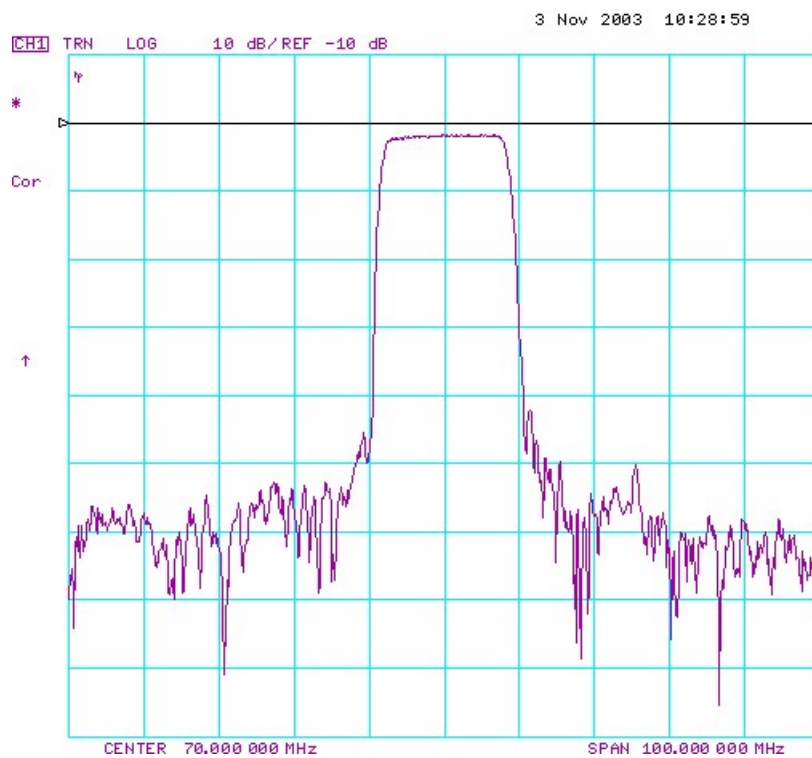
1. Input Power Level: +20 dB_m
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

Parameters	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	69.8	70	70.2
Insertion Loss, IL	dB	-	12.2	13.2
1 dB Bandwidth	MHz	15.2	15.38	-
3 dB Bandwidth	MHz	16.0	16.41	-
40 dB Bandwidth	MHz	-	20.17	21.0
Relative Attenuation:				
10 to 59.5 MHz	dB	40	43	-
82 to 140 MHz	dB	40	45	-
Amplitude ripple within $F_c \pm 7$ MHz	dB	-	0.55	1.0
Group Delay ripple within $F_c \pm 7$ MHz	nsec	-	40	80
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

C. Frequency Characteristics:

(1) Frequency Response



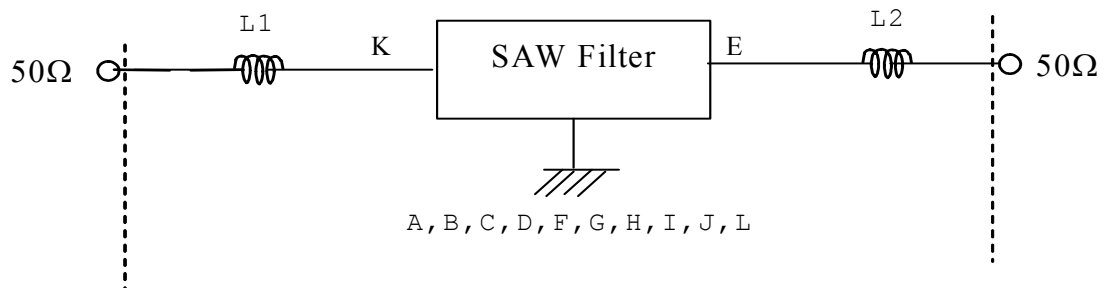
(2) Passband response and Group Delay Variation



D. Measurement Circuit:

Source and load impedance: $50\ \Omega$

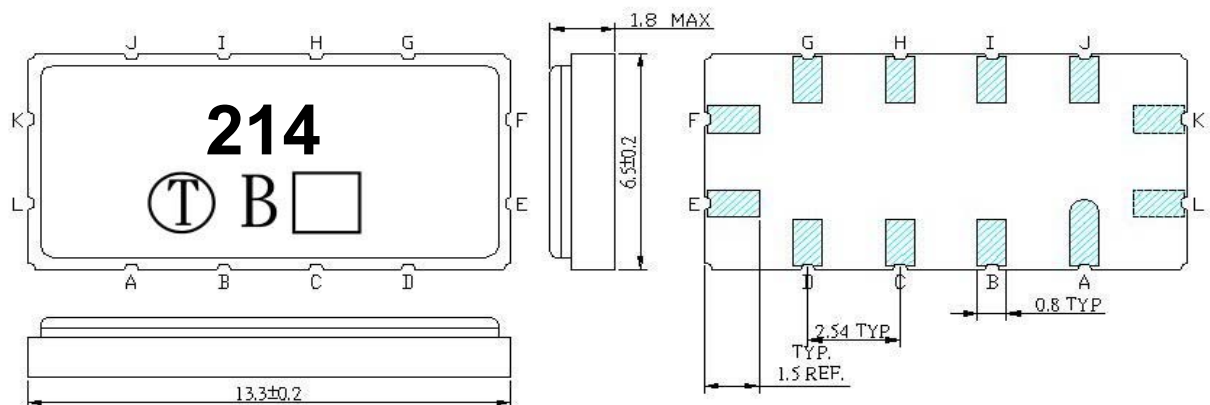
Network analyzer



Input: $L1=220\ \text{nH}$, $Q>40$

Output: $L2=220\ \text{nH}$, $Q>40$

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