



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Product Specifications Approval Sheet


Product Name: 70 MHz 16MHz BW SMD 13.3 x 6.5 mm SAW IF Filter

TST Parts No.: TB0214B

Customer Parts No.: \_\_\_\_\_

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ Kazuma Lee 

Approval by: \_\_\_\_\_ Bob Chau 

Date: \_\_\_\_\_ 11 / 05 / 2014

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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

Model No.: TB0214B

Rev. No.:1

## A. Maximum Rating:

RoHS Compliant  
Lead free  
Lead-free soldering

1. Input Power Level: +20 dB<sub>m</sub>
2. Operating Temperature: -40°C to +85°C
3. Storage Temperature: -40°C to +85°C

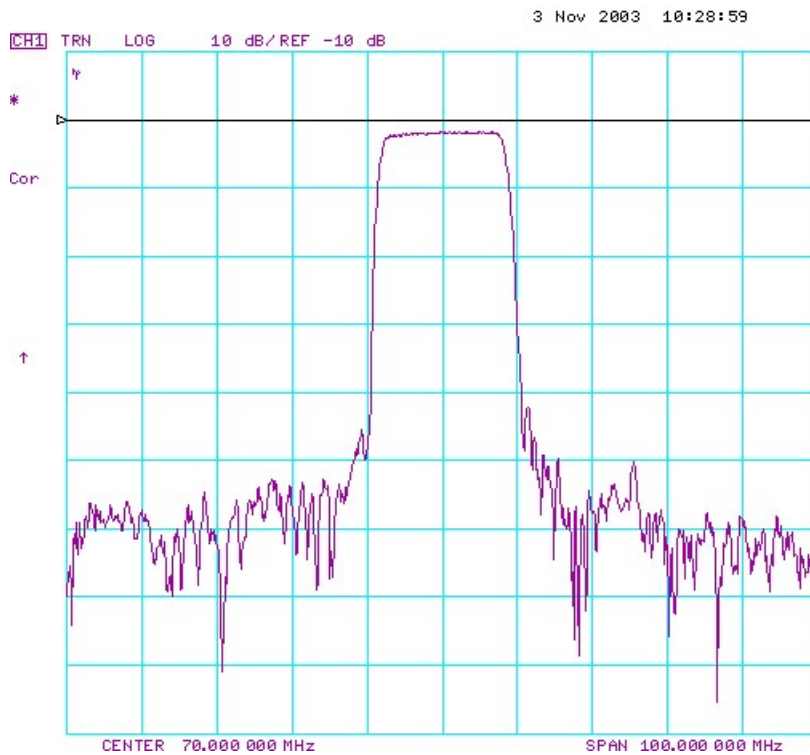
**Electrostatic Sensitive Device**

## B. Electrical Characteristics:

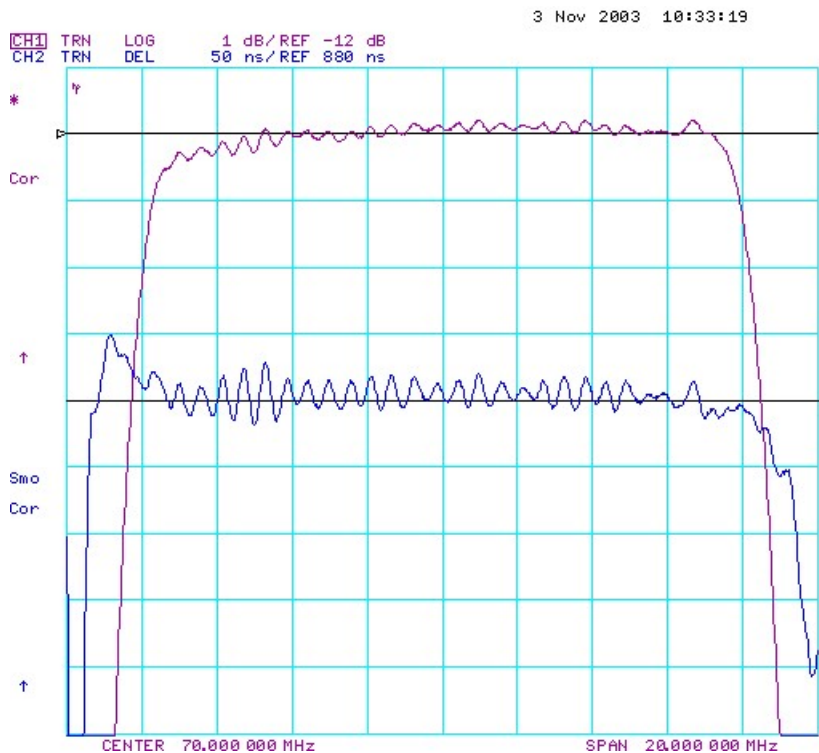
Parameters	Unit	Min.	Typical	Max.
Center frequency, <b>F<sub>c</sub></b>	MHz	-	70	-
Insertion Loss, <b>IL</b>	dB	-	12.2	14.0
3 dB Bandwidth	MHz	16.0	16.42	-
Amplitude Ripple within $F_c \pm 7$ MHz	dB	-	0.5	1.5
Group Delay Ripple within $F_c \pm 7$ MHz	nsec	-	40	80
Absolute Group Delay at $F_c$	us	-	0.88	-
Relative Attenuation:				
10 to 59.5 MHz	dB	40	43	-
82 to 140 MHz	dB	40	43	-
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

## C. Frequency Characteristics:

### (1) Frequency Response



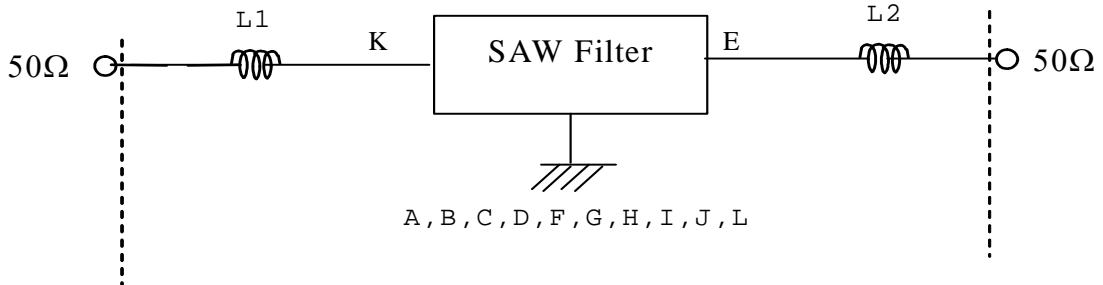
### (2) Passband response and Group Delay Variation



**D. Measurement Circuit:**

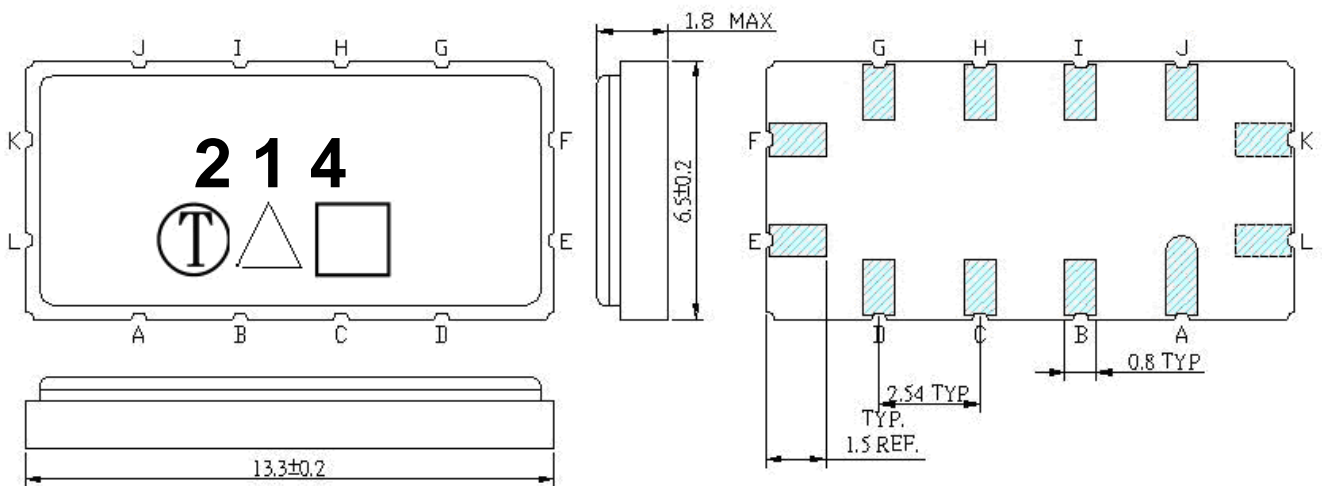
Source and load impedance: 50 Ω

Network analyzer



Input: L1=220 nH, Q>40  
Output: L2=220 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
- : Week Code
- Unit: mm
- △ : Product / Year Code





## H. RECOMMENDED REFLOW PROFILE:

