



# 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

E-mail: [tstsales3@mail.taisaw.com](mailto:tstsales3@mail.taisaw.com) Web: [www.taisaw.com](http://www.taisaw.com)

## Approval Sheet For Product Specification

Issued Date:

Product Name: 350MHz IF SAW Filter (BW=2.6MHz)

TST Parts No.: TB0200A

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

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

Checked by: \_\_\_\_\_ Vincent-WT Chiu

Approval by: \_\_\_\_\_ Francis Chen

Date: \_\_\_\_\_ 13 Jan. 2003



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350 MHz IF SAW Filter (SMD 13.3×6.5 mm)

Model No.: TB0200A

Rev. No.:3

## A. Maximum Rating:

RoHS Compliant  
Lead free  
Lead-free soldering

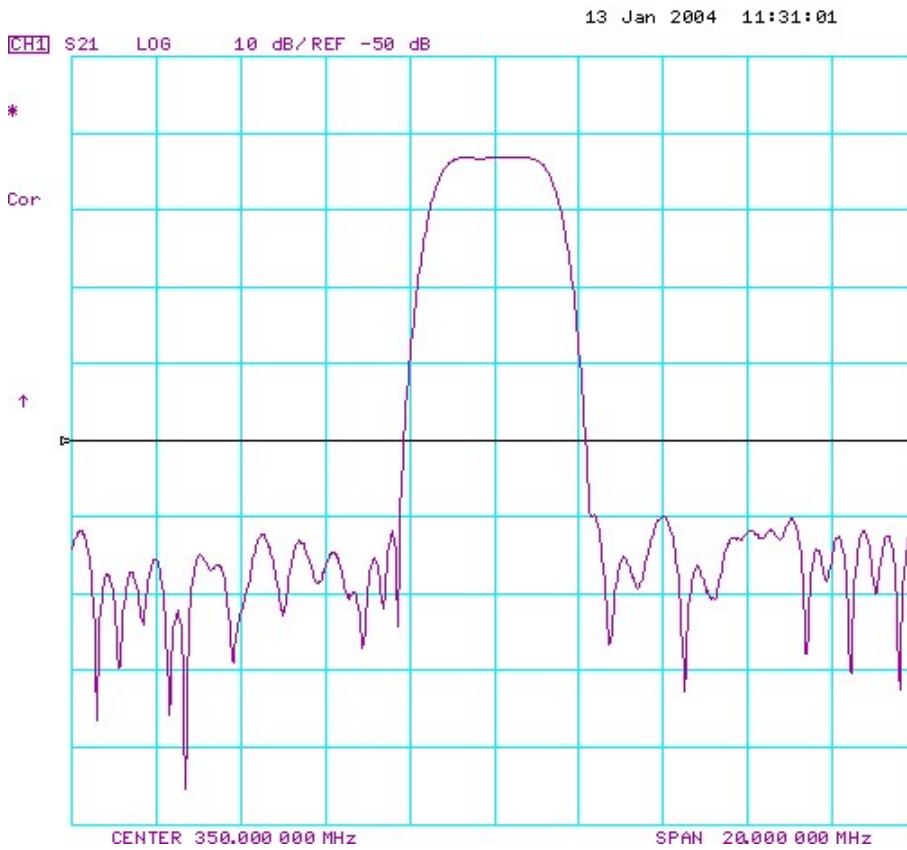
1. Input Power Level: +20 dB<sub>m</sub>
2. Operating Temperature: +25°C
3. Storage Temperature: -40°C to +85°C

## B. Electrical Characteristics:

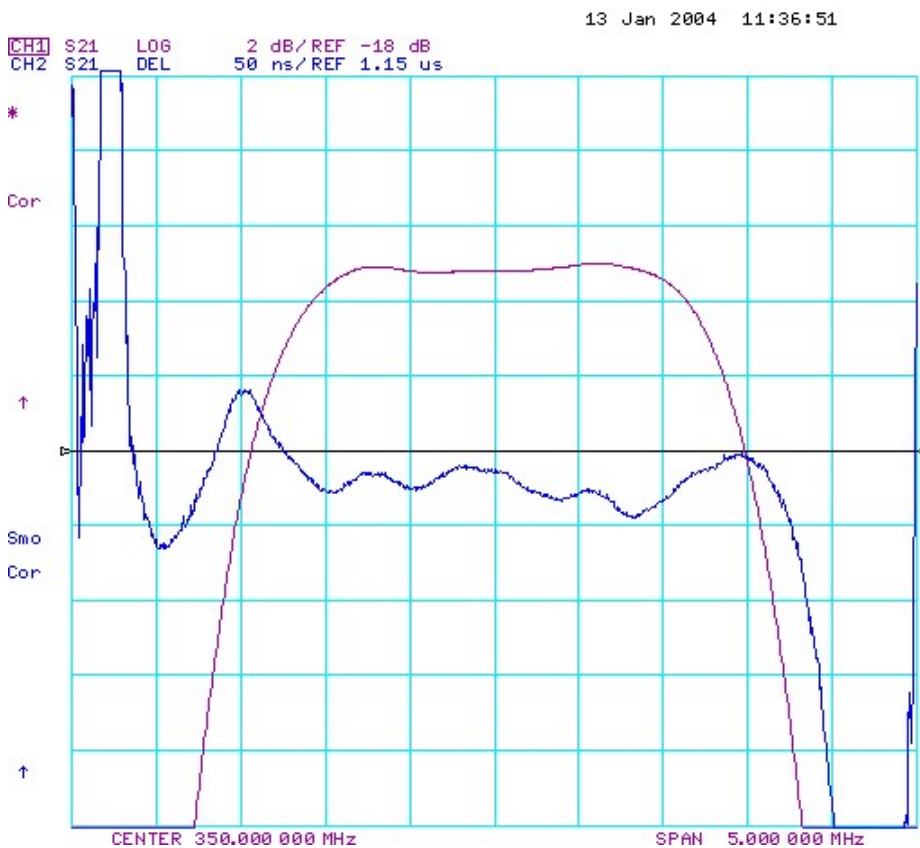
Parameter	Unit	Min.	Typical	Max.
Center frequency, <b>F<sub>c</sub></b>	MHz	349.9	350	350.1
Insertion Loss, <b>IL</b>	dB	-	13.5	14.5
0.5dB Bandwidth	MHz	1.7	1.96	-
3dB Bandwidth	MHz	2.6	2.65	-
20dB Bandwidth	MHz	-	3.8	4
45dB Bandwidth	MHz	-	4.4	6
Amplitude ripple within ±0.85 MHz	dB	-	0.4	0.7
Group Delay ripple within ±1.1 MHz	nsec	-	35	70
Substrate Material	-	-	Quartz	-
Temperature Coefficient of frequency	ppm/ K	-	$\Delta F/F = -[(T-T_0)/5.4]^2$	-

## C. Frequency Characteristics:

### (1) Frequency Response



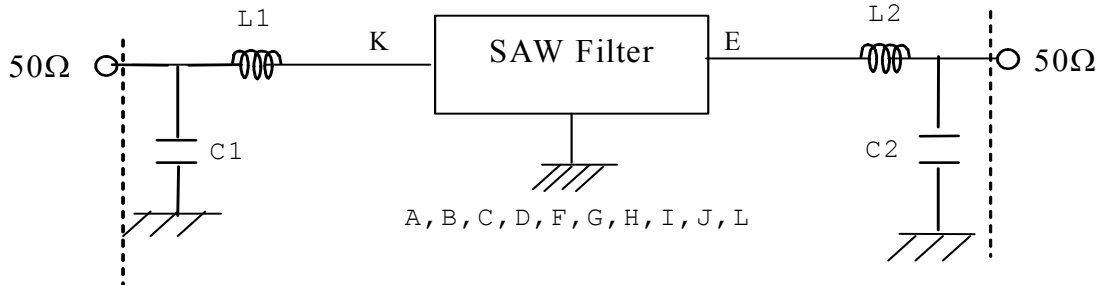
### (2) Passband response and Group Delay Variation



**D. Measurement Circuit:**

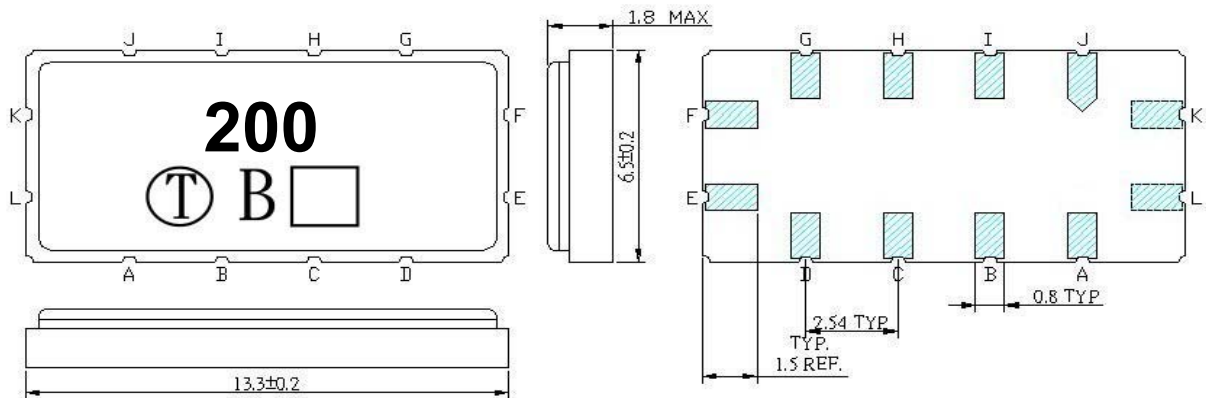
Source and load impedance: 50 Ω

Network analyzer



Input: L1=15nH, Q>40; C1=27 pF  
 Output: L2=15nH, Q>40; C2=27 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