



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet for Product Specification

Issued Date:

Product Name: 70MHz IF SAW Filter (BW=9.2 MHz)

TST Parts No.: TB0225A

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

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

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

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

Date: \_\_\_\_\_ 04,10 , 2007



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

Model No.: TB0225A

Rev. No.:3

## A. Maximum Rating:

RoHS Compliant  
Lead free  
Lead-free soldering

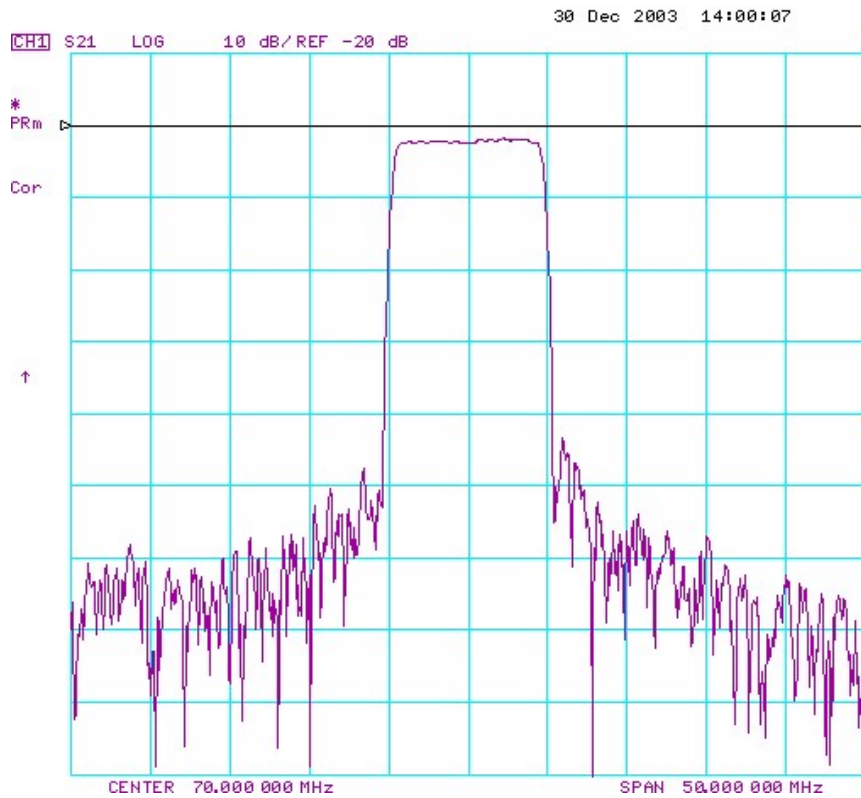
1. Input Power Level: +20 dB<sub>m</sub>
2. Operating Temperature: -10°C to +70°C
3. Storage Temperature: -40°C to +85°C

## B. Electrical Characteristics:

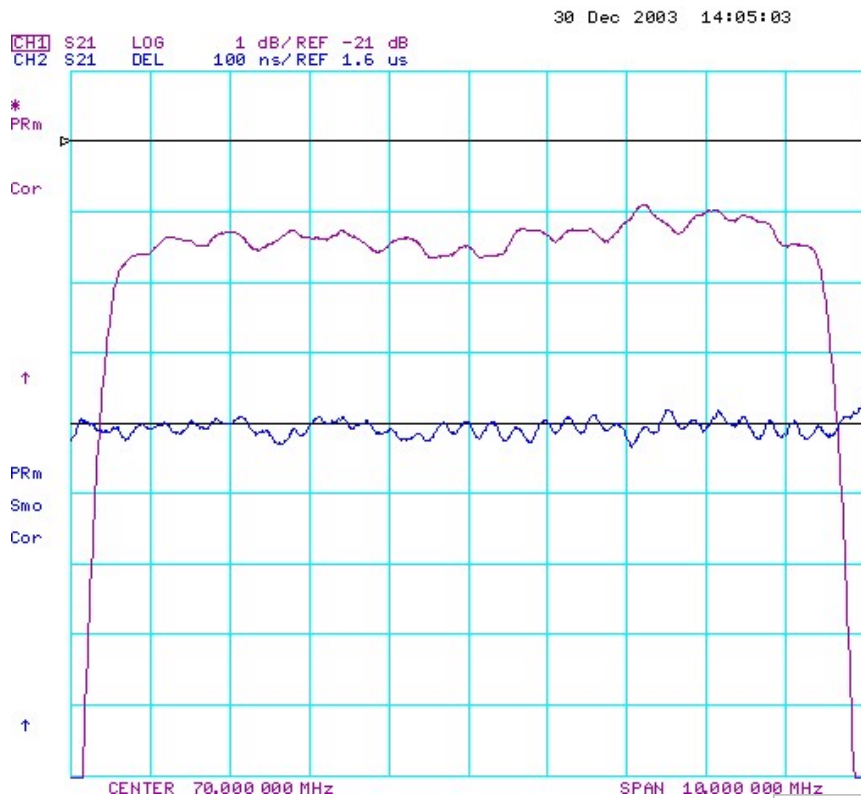
Parameters	Unit	Min.	Typical	Max.
Center frequency, F <sub>c</sub>	MHz	-	70	-
Insertion Loss, IL	dB	-	22.2	24
1 dB Bandwidth	MHz	-	9.0	-
3 dB Bandwidth	MHz	9.20	9.33	-
40 dB Bandwidth	MHz	-	10.67	11.00
Relative Attenuation:				
10 to 64 MHz	dB	40	45	-
76 to 140 MHz	dB	40	45	-
Amplitude ripple within F <sub>c</sub> ± 4.0 MHz	dB	-	0.8	1.5
Group delay ripple within F <sub>c</sub> ± 4.0 MHz	nsec	-	70	150
Absolute Delay	usec	-	1.59	-
Substrate Material	-	-	LT	-
Temperature Coefficient of frequency	ppm/ °C	-	-18	-

### C. Frequency Characteristics:

#### (1) Frequency Response



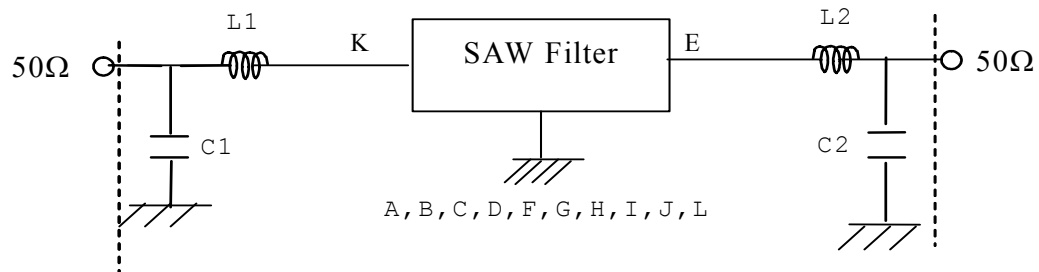
#### (2) Passband response and Group Delay Variation



#### D. Measurement Circuit:

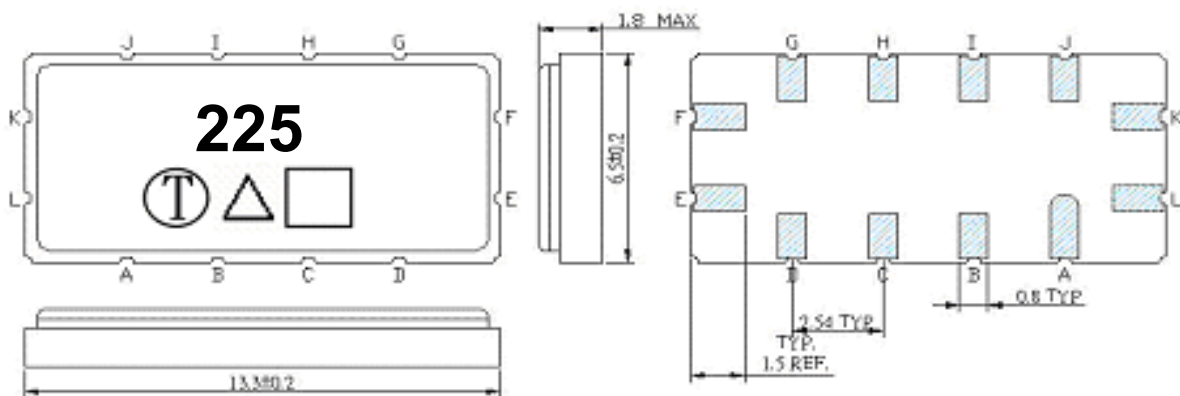
Source and load impedance:  $50\ \Omega$

Network analyzer



Input:  $L1=150\ \text{nH}$ ;  $C1=56\ \text{pF}$   
Output:  $L2=369\ \text{nH}$ ;  $C2=62\ \text{pF}$

#### 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

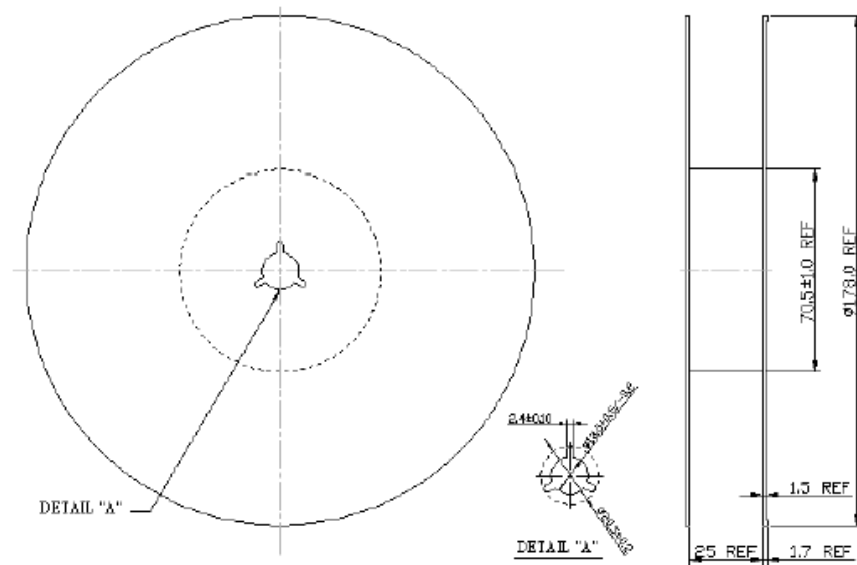
□: Date code

△: Product / Year Code

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

**F.PACKING:**

REEL DIMENSION:



TAPE DIMENSION:

