



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 480 MHz TO39

TST Parts No.: TB0222A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Asin Lin

Approval by: _____ Francis Chen

Date: _____ 2004/8/06



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SAW Filter 480 MHz

MODEL NO.:TB0222A

REV. NO.:2.0

A. MAXIMUM RATING:

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

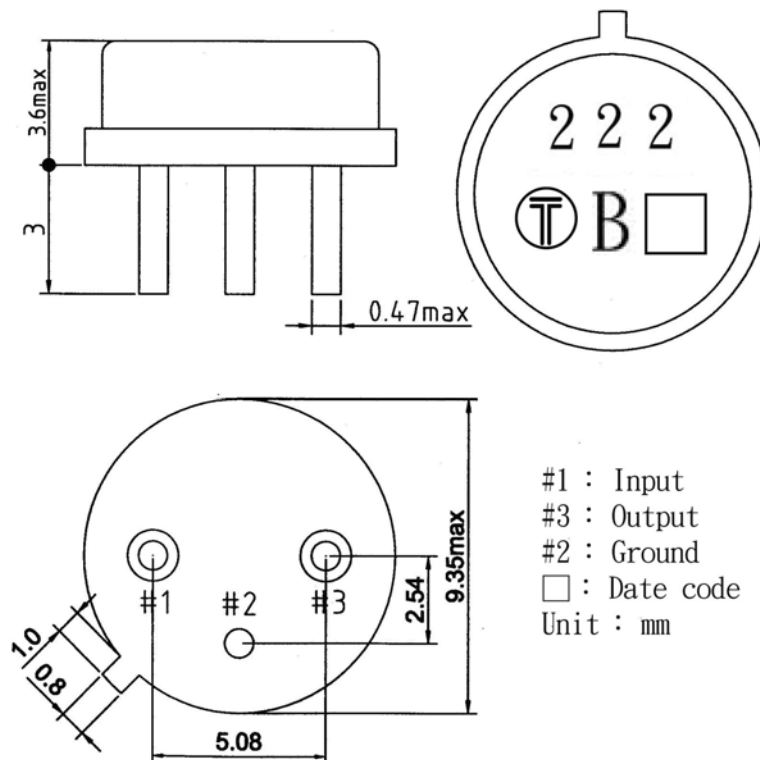
RoHS Compliant

Lead-free soldering

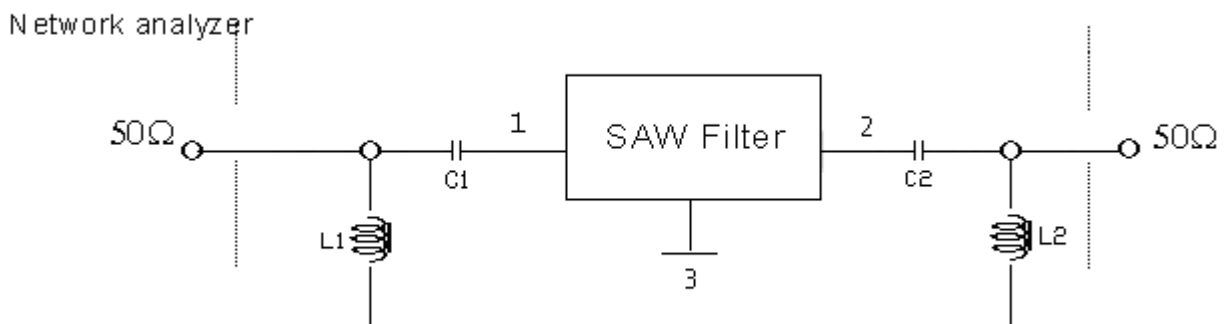
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	480	-
Insertion Loss, IL at Fc	dB	-	9.3	10.3
Passband width, BW3	MHz	3.9	4.66	-
Passband width, BW25	MHz	-	6.8	7.2
Passband width, BW30	MHz	-	7.15	8.0
Amplitude Ripple in $Fc \pm 1.75\text{MHz}$	dB	-	0.9	1.2
Group delay ripple in $Fc \pm 1.75\text{MHz}$	nS	-	100	250
Phase Linearity in $Fc \pm 1.75\text{MHz}$	rms°		1.3	3.0
Attenuation				
Fc - 100 MHz ~ Fc - 10 MHz	dB	40	43	
Fc + 10 MHz ~ Fc + 100 MHz	dB	40	43	
Temperature coefficient of frequency	ppm/c	-	-18	-

C. OUTLINE DRAWING:



E. MEASUREMENT CIRCUIT:



$$\begin{aligned} C1 &= 22 \text{ PF} & L1 &= 6.8 \text{ nH} \\ C2 &= 30 \text{ PF} & L2 &= 5.6 \text{ nH} \end{aligned}$$

D.FREQUENCY CHRACTERISTICS:

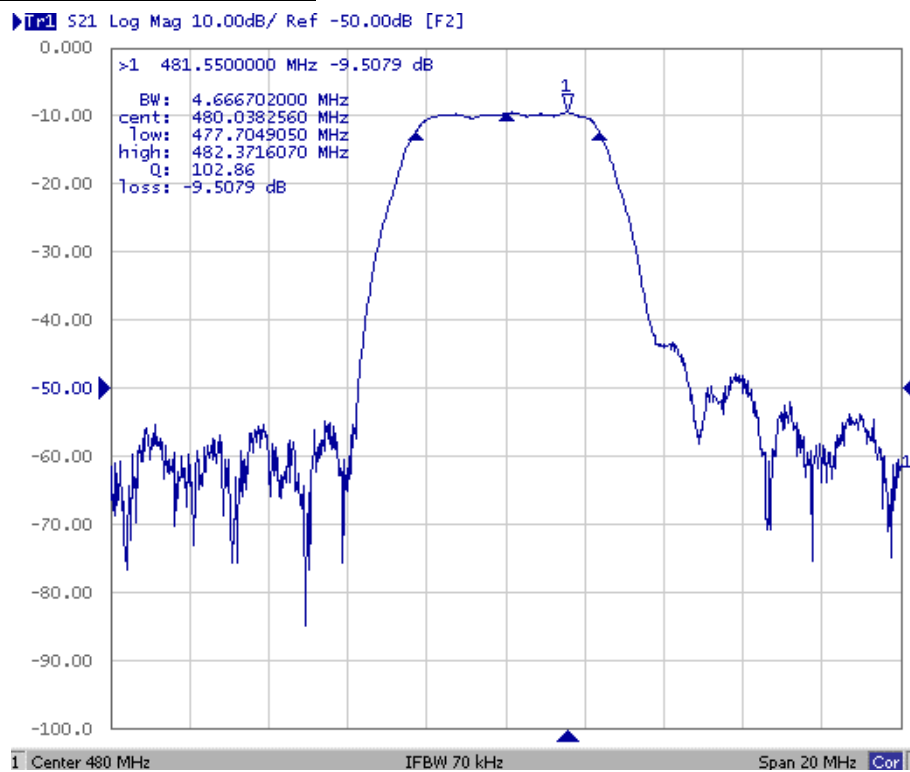


Fig-1 S21 Response Horizontal: 2MHz/Div

Vertical: 10dB/Div

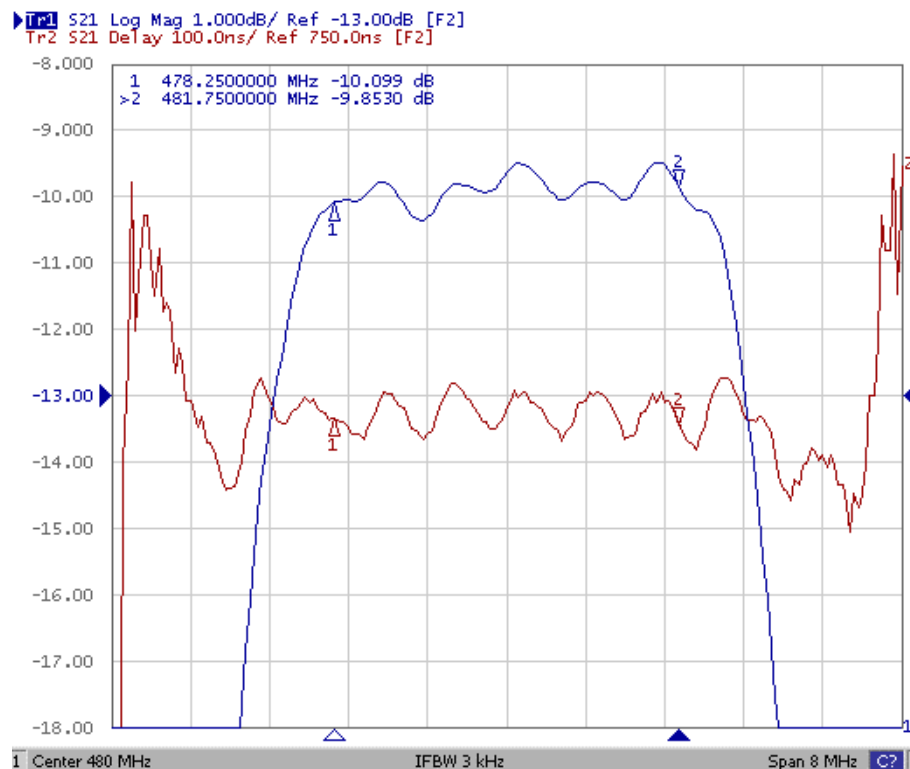


Fig-2 Horizontal: 800KHz/Div Vertical: 1dB/Div

Vertical: 100ns/Div