



# TAI-SAW TECHNOLOGY CO., LTD.

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## Approval Sheet For Product Specification

Issued Date:

Product Name: SAW Filter 479.5MHz SMD5X5mm

TST Parts No.: TE0107A

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

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

Checked by: Jacky Huang

Approval by: Francis Chen

Date: 2003/10/31



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## Two-channel SAW Filter 479.5MHz for Satellite Receiver

MODEL NO.: TE0107A

REV. NO.:1

### A. MAXIMUM RATING:

- 1.AC Voltage Vac: 5V
- 2.Operating Temperature: -25°C to 85°C
- 3.Storage Temperature: -40°C to 85°C

RoHS Compliant  
Lead free  
Lead-free soldering

### B. ELECTRICAL CHARACTERISTICS OF CHANNEL 1:

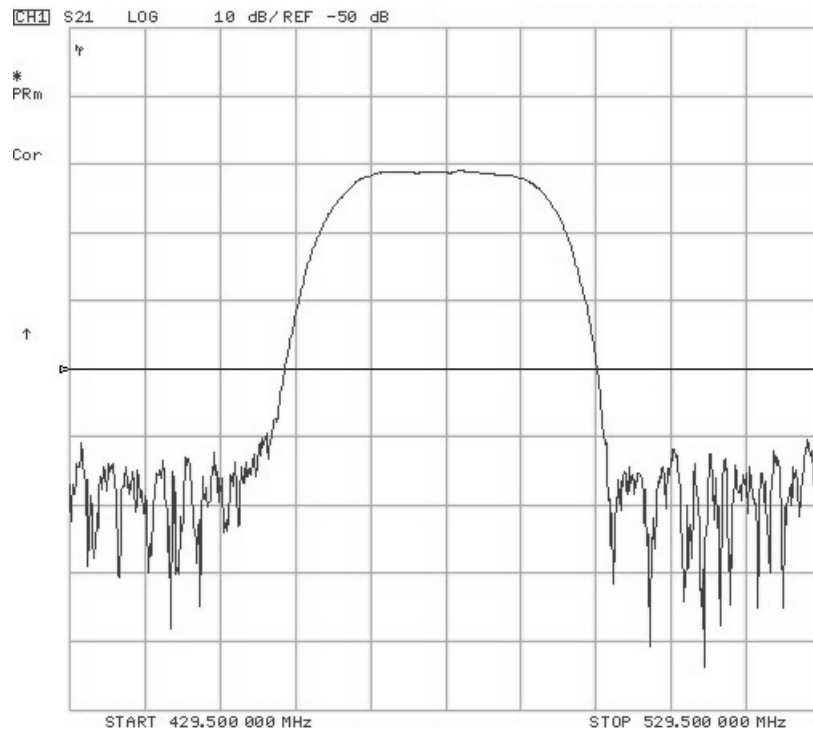
Item	Unit	Min.	Type.	Max.
Center frequency, <b>Fc</b>	MHz	-	479.5	-
Insertion Loss, <b>IL</b> at Fc	dB	-	21.0	22.5
Passband width, <b>BW3</b>	MHz	-	26	-
Amplitude Ripple in Fc±8.5MHz	dB	-	0.6	1.0
Group delay ripple in Fc±13.5MHz	nS	-	20	32
Attenuation:(Reference level from IL)				
Fc -13.5MHz	dB	-	3.0	4.5
Fc +13.5MHz	dB	-	3.5	4.5
Fc -50 to -27.5MHz	dB	36	40	-
Fc +27.5 to +50MHz	dB	34	40	-
Temperature coefficient of frequency	ppm/c	-	-86	-

### C. ELECTRICAL CHARACTERISTICS OF CHANNEL 2:

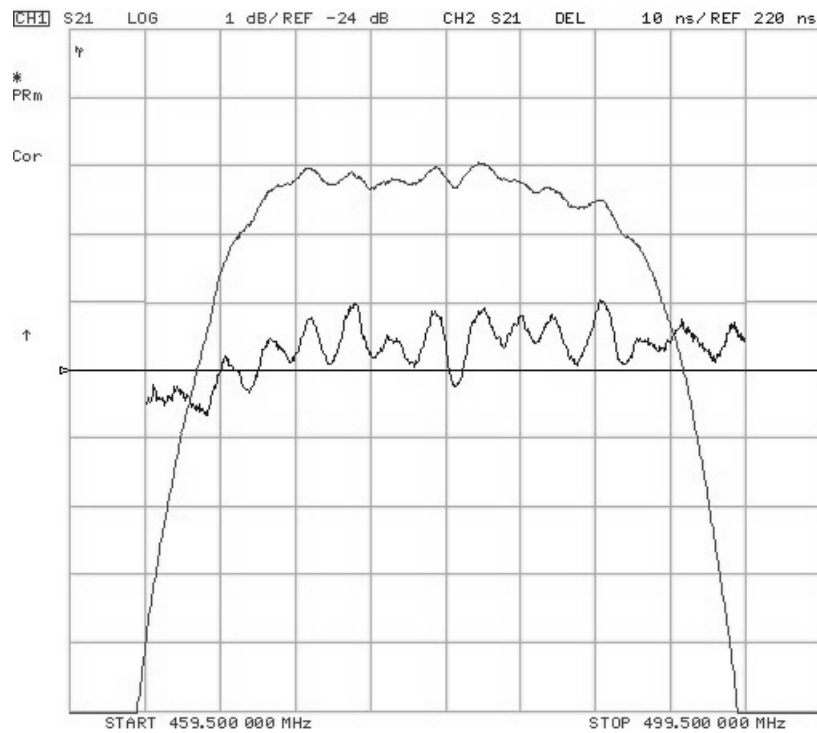
Item	Unit	Min.	Type.	Max.
Center frequency, <b>Fc</b>	MHz	-	479.5	-
Insertion Loss, <b>IL</b> at Fc	dB	-	21.3	22.5
Passband width, <b>BW3</b>	MHz	-	18	-
Amplitude Ripple in Fc±3.5MHz	dB	-	0.35	0.8
Group delay ripple in Fc±9MHz	nS	-	18	28
Attenuation:(Reference level from IL)				
Fc -9MHz	dB	-	2.5	4.5
Fc +9MHz	dB	-	2.5	4.5
Fc -50 to -22MHz	dB	36	40	-
Fc +21 to +50MHz	dB	34	40	-
Temperature coefficient of frequency	ppm/c	-	-86	-

D.FREQUENCY CHRACTERISTICS OF CHANNEL 1:

(1) Frequency Response:

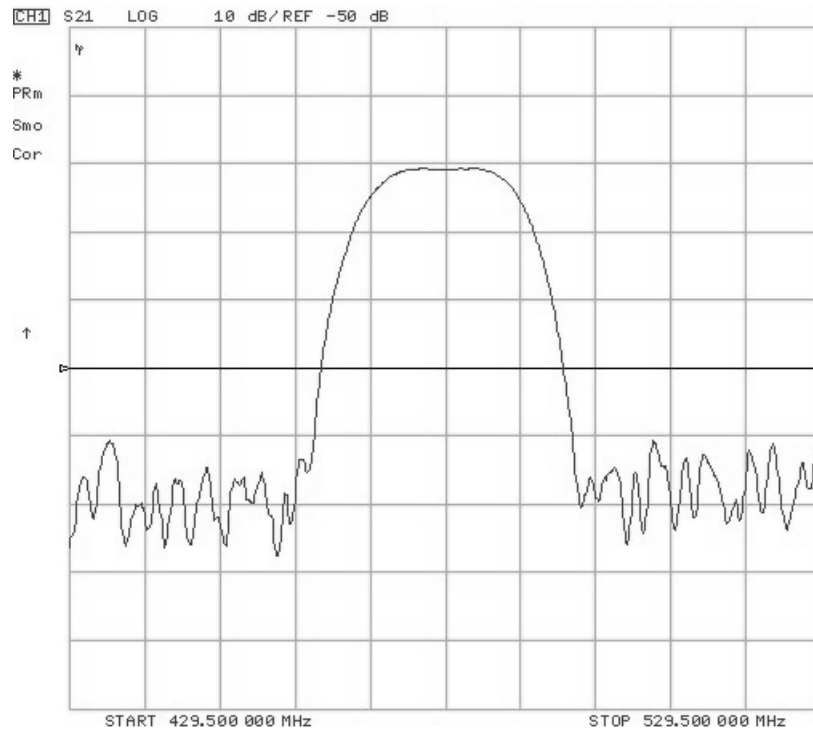


(2) Amplitude ripple & Group Delay:

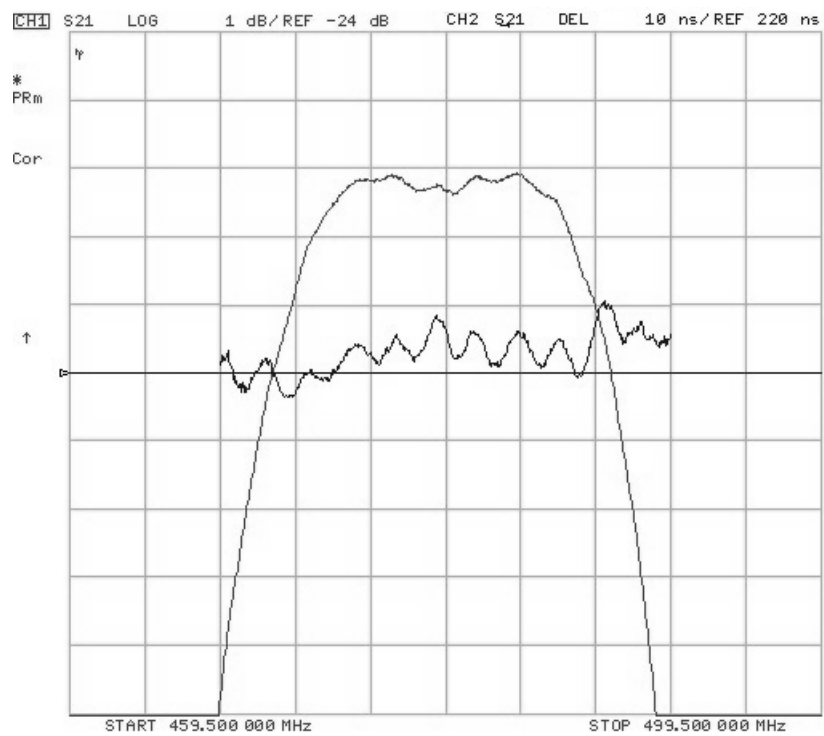


## E. FREQUENCY CHARACTERISTICS OF CHANNEL 2:

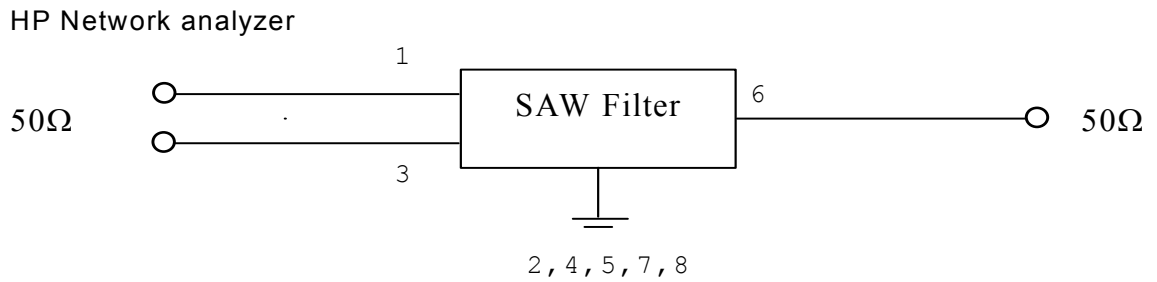
### (1) Frequency Response:



### (2) Amplitude ripple & Group Delay:



F. MEASUREMENT CIRCUIT:



G. OUTLINE DRAWING:

