

SAW Filter 228.1MHz

Model: TB0573A

Part No: MP02548

REV NO.: 2

A. MAXIMUM RATING:

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

B. ELECTRICAL CHARACTERISTICS:

1. Ambient Temperature: 25°C

Item		Min.	Typical	Max.	
Center frequency	Fc	MHz	-	228.1	-
Insertion loss at Fc		dB	-	10.0	11.0
Bandwidth at -1.0dB		MHz	27.0	29.0	-
Amplitude Ripple (Fc ± 12.5 MHz)		dB	-	0.3	1.0
Group Delay Ripple (Fc ± 12.5 MHz)		nS	-	20	-
Attenuation (Reference level from minimum Insertion loss)					
100 MHz ~204.1 MHz		dB	40	50	-
304.1 MHz ~ 209.5 MHz		dB	25	45	-
247.5 MHz ~ 252.5 MHz		dB	25	36	-
252.5 MHz ~ 350 MHz		dB	38	42	-
Temp Coefficient		ppm/°C	-	-93	-

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C. FREQUENCY CHARACTERISTICS:

1.S21 Response

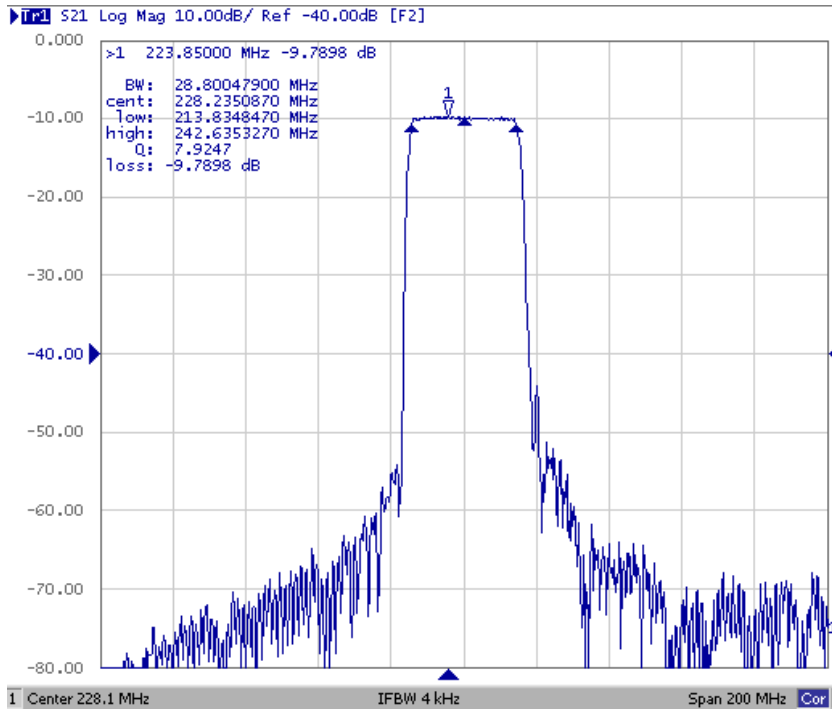


Fig1. Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Passband Ripple

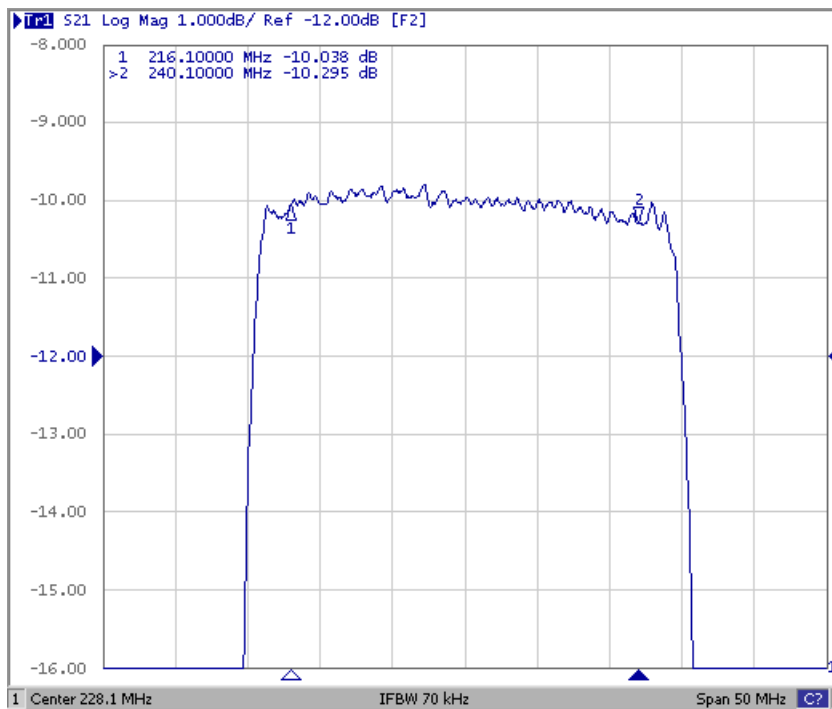


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div

3. Group Delay Ripple

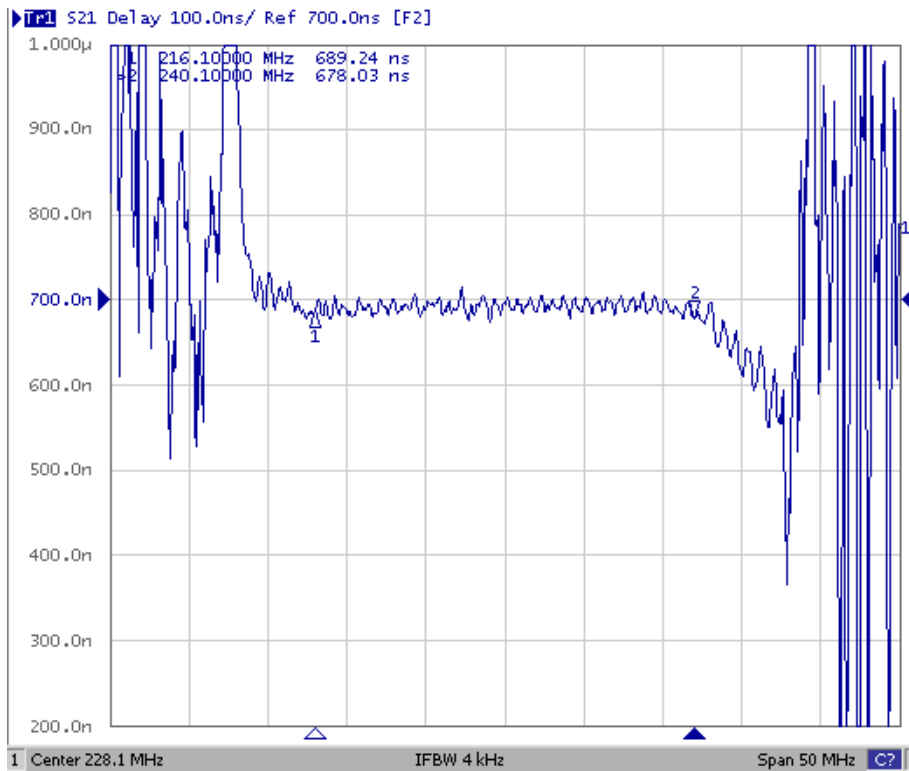
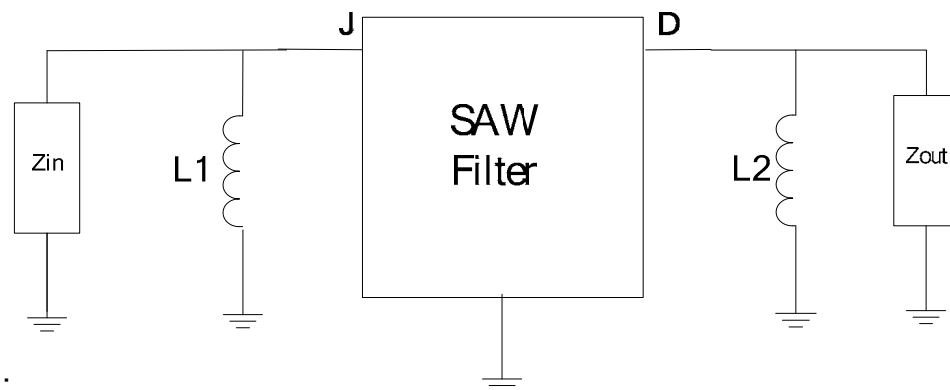


Fig3. Horizontal: 5MHz/Div Vertical: 100nS/Div

D. MEASUREMENT CIRCUIT

1. Single ended input 50 ohm to Single ended Output 50 ohm



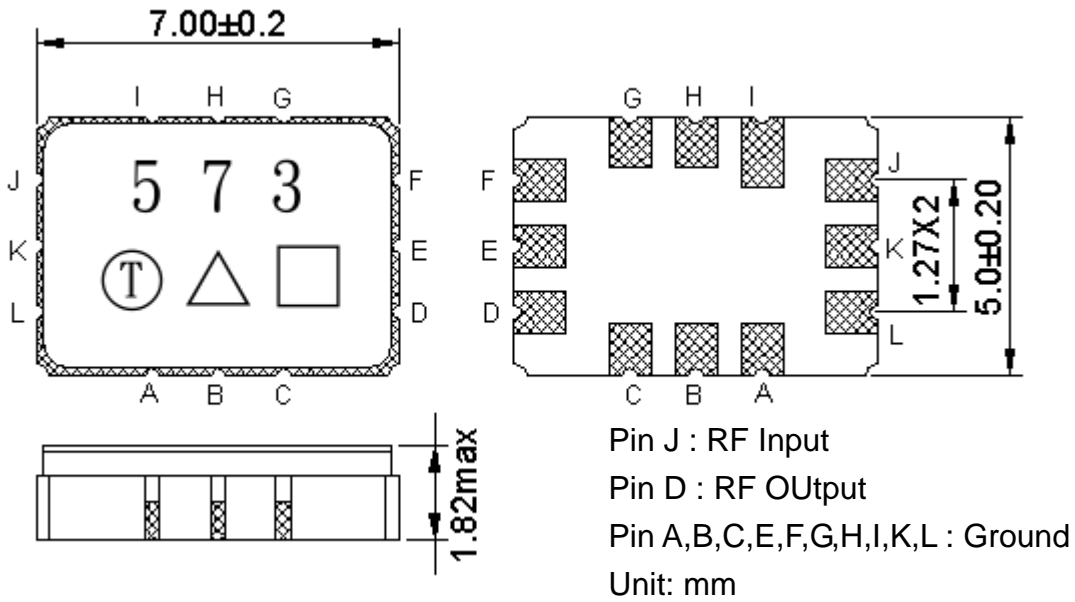
L1=22nH, L2=47nH

Note: The matching structure will change according to different test fixture.

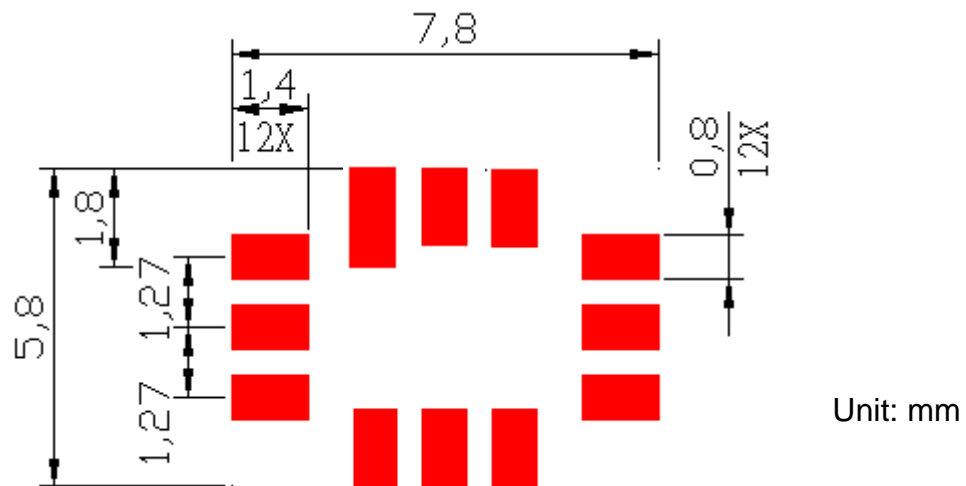
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E. OUTLINE DRAWING:



F. PCB FOOTPRINT



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H. RECOMMENDED REFLOW PROFILE:

