

SAW Filter 828.0MHz
Part No: MP06146

Model: TB1008A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -25°C to 55°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Ambient Temperature: 25°C

Characteristics	Min.	Typ.	Max.
Center frequency Fc MHz	-	828	-
Maximum Insertion loss IL dB	-	25.5	30.0
1.0dB Band Width MHz	14.0	14.7	-
40dB Band Width MHz		18.0	19.0
Passband Ripple at Fc ± 7.0MHz dB	-	0.7	1.2
Attenuation (Reference level from minimum Insertion loss)			
818.5MHz dB	40	47	-
837.5MHz dB	40	55	-
Single Input Impedance Ω	-	50	-
Single Output Impedance Ω	-	50	-
Temperature Coefficient ppm/°C ²	-	-0.036	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band response

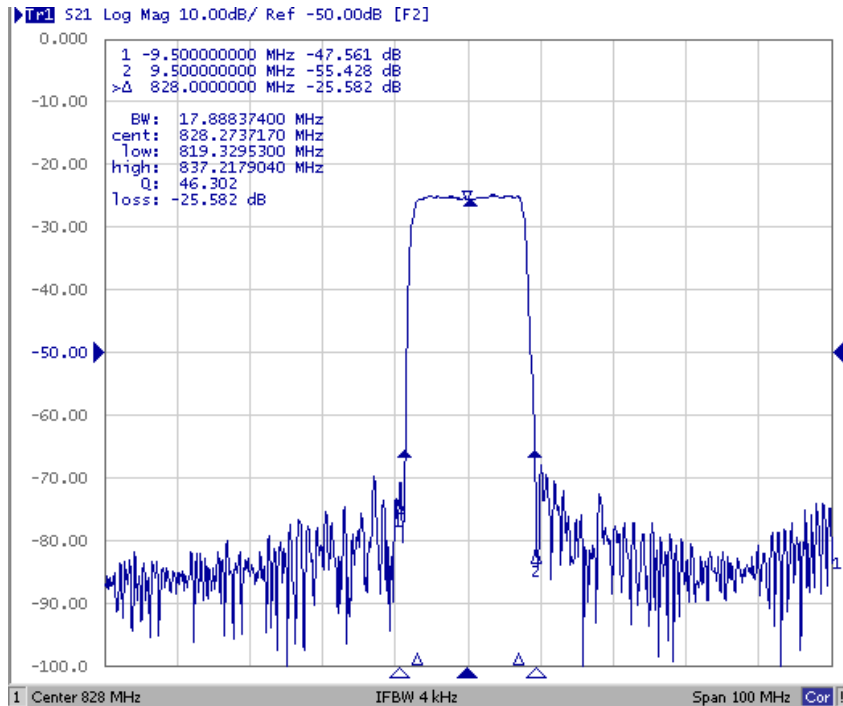


Fig. 1: Horizontal: 10MHz / Div, Vertical: 10dB/Div

2. Pass band & Group Delay response

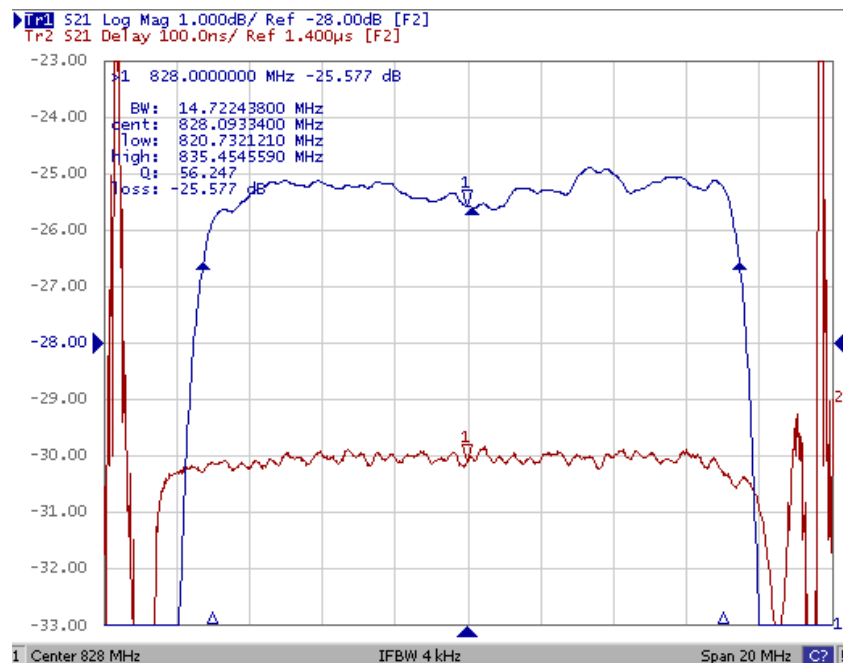
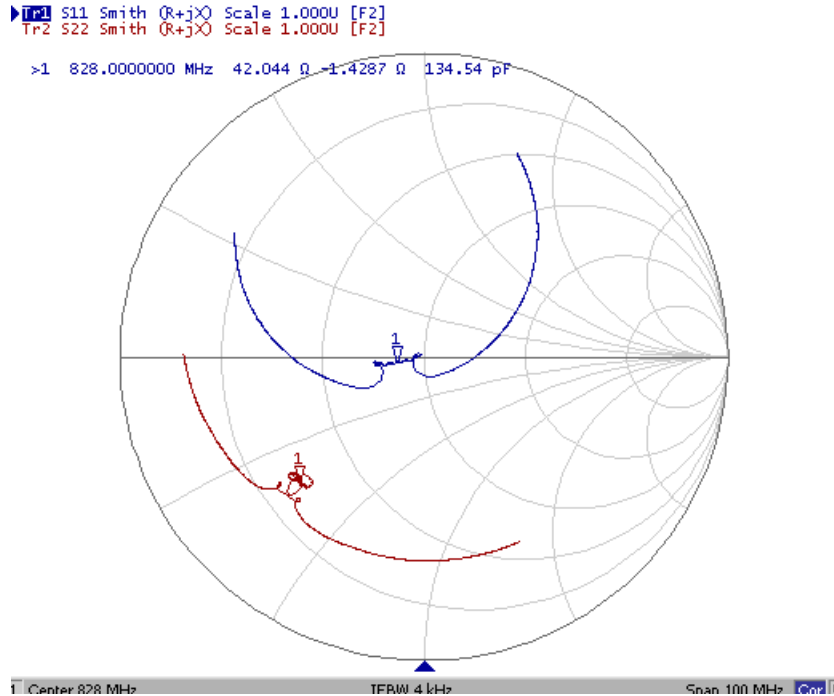


Fig. 2: Horizontal: 2MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

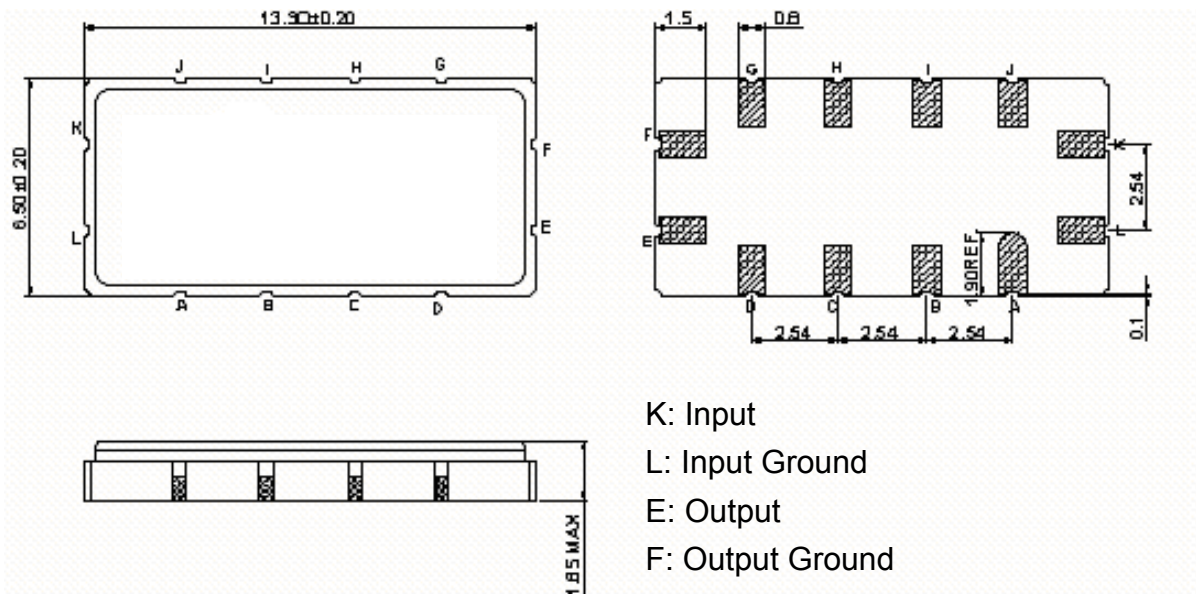
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3. Smith Chart



D. OUTLINE DRAWING:

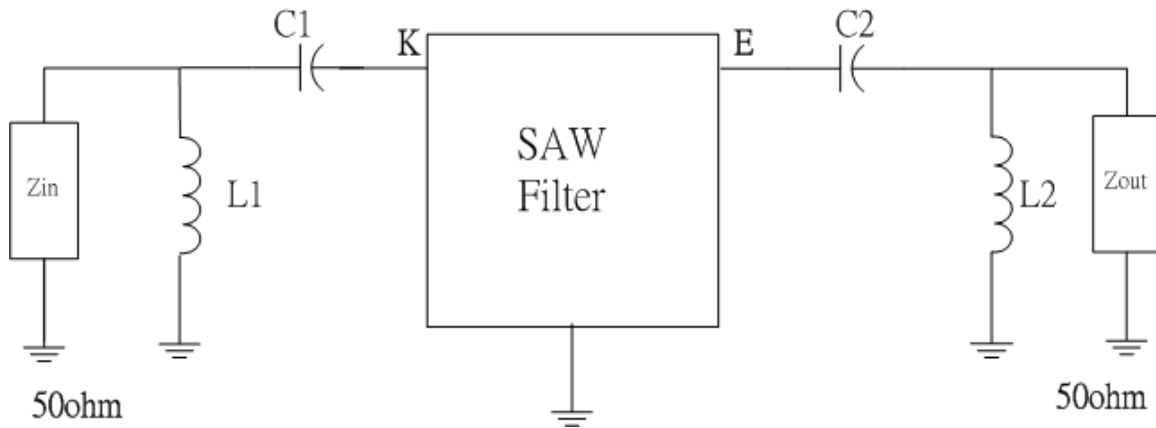


- K: Input
 - L: Input Ground
 - E: Output
 - F: Output Ground
 - A, B, C, D, G, H, I, J: Ground
- Unit: mm

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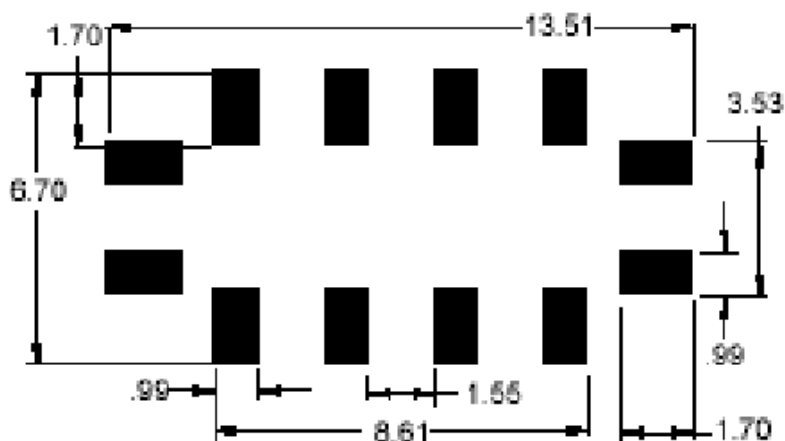
E. MATCHING CIRCUIT:



$$Z_{IN} = Z_{OUT} = 50\Omega$$

$$L1 = 3nH, L2 = 5.6nH, C1 = 4.7pF, C2 = 6.8pF$$

F. PCB FOOTPRINT:



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H. RECOMMENDED REFLOW PROFILE:

