



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

49 MHz LC Bandpass Filter

Part Number: AE49B9794



Electrical Specifications

Center Frequency: 49 MHz
Bandwidth: 14 MHz
Passband : 42 MHz to 56 MHz
Insertion Loss: ≤ 1 dB
Return Loss: >15 dB @ 42 MHz to 56 MHz
Rejection: >40 dB @ 0-29 MHz
Rejection2: >40 dB @ 69 MHz to 1000 MHz
Impedance: 50 Ohms
Power Handling: 2 Watts

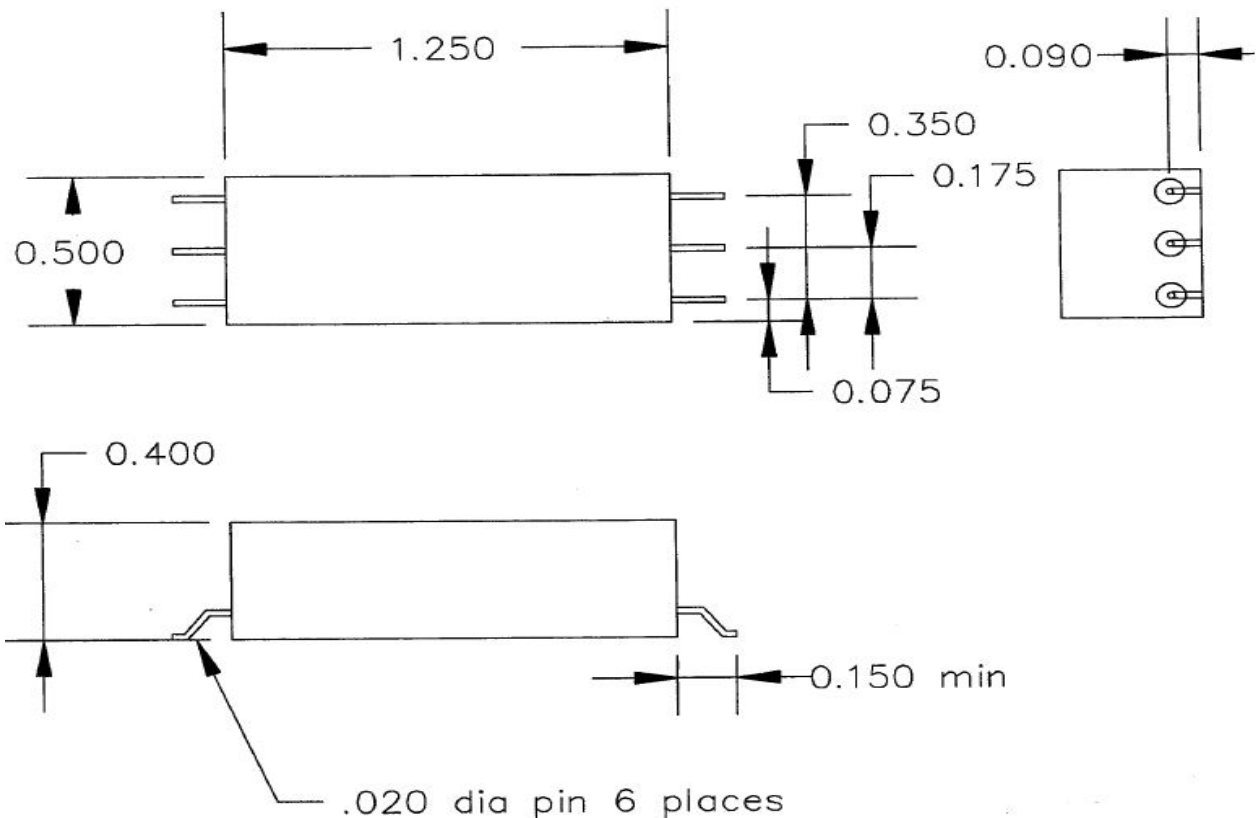
Mechanical

Connector Type: Surface Mount
Dimensions: 1.25" x 0.5" x 0.4" in.

Environmental

Operating Temperature: -25°C to $+70^{\circ}\text{C}$
Storage Temperature: -40°C to $+90^{\circ}\text{C}$
Shock: 10 G. 11ms
Vibration: 10 G. 5 to 200Hz

Outline Drawing:





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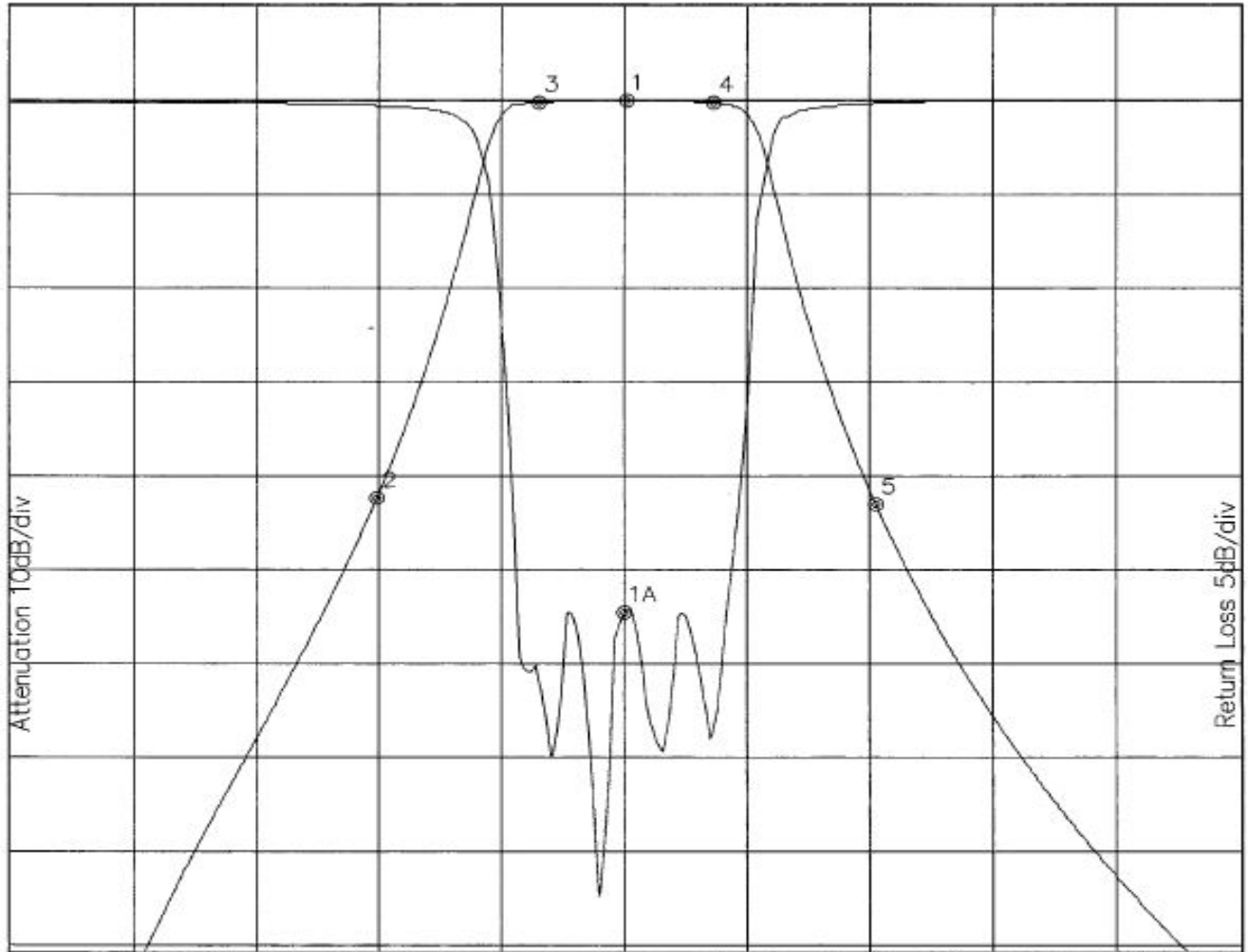


Response Plot:

B9794.lad

JAN 25, 2008

Attenuation/Return Loss



Attenuation Start: 0.010MHz Stop: 98.0MHz

Return Loss Start: 0.010MHz Stop: 98.0MHz

Offset -1.0869dB

Marker 1 Freq 49.079MHz Atten 0.029dB
Marker 2 Freq 29.131MHz Atten -42.360dB
Marker 3 Freq 42.113MHz Atten -0.205dB
Marker 4 Freq 56.045MHz Atten -0.245dB
Marker 5 Freq 69.027MHz Atten -43.090dB

Marker 1A Freq 48.921MHz Ret Loss -27.323dB