



**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:**  $\leq 1$  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

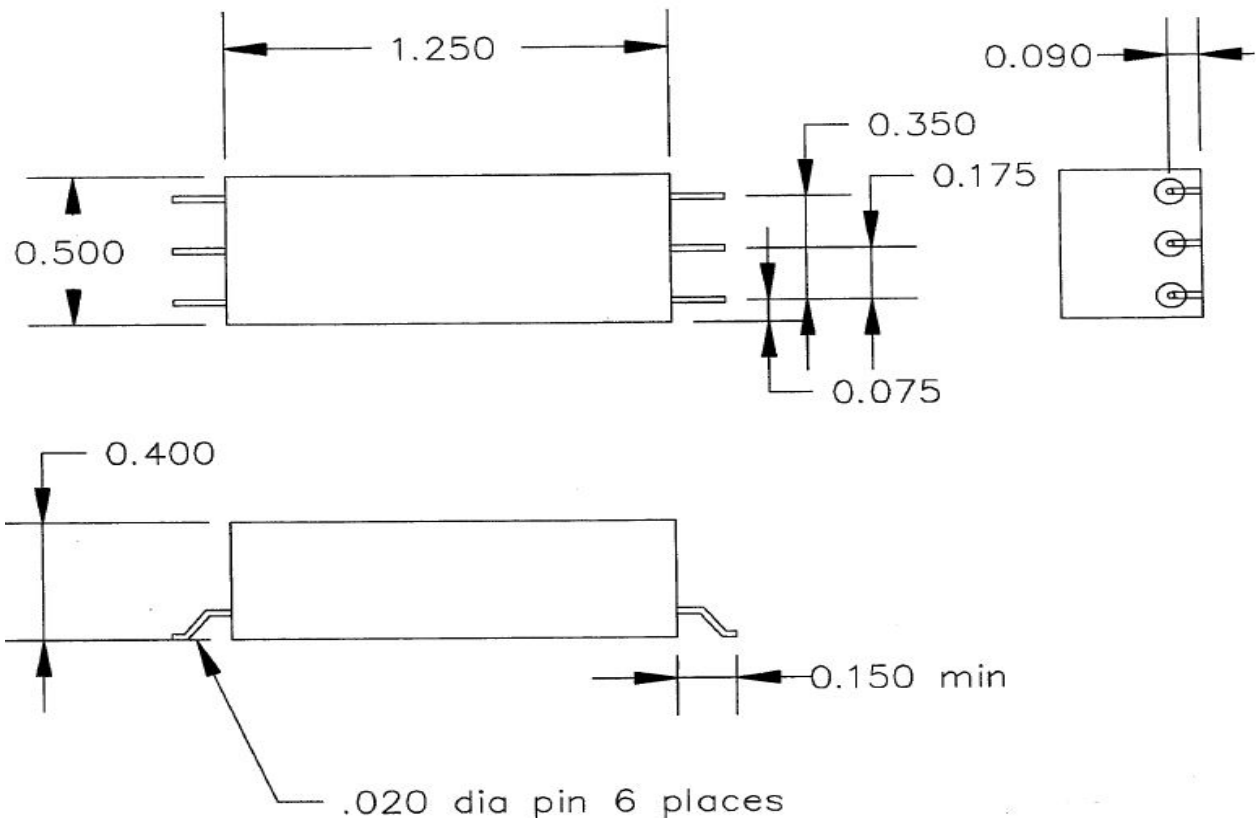
### Mechanical

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

### Environmental

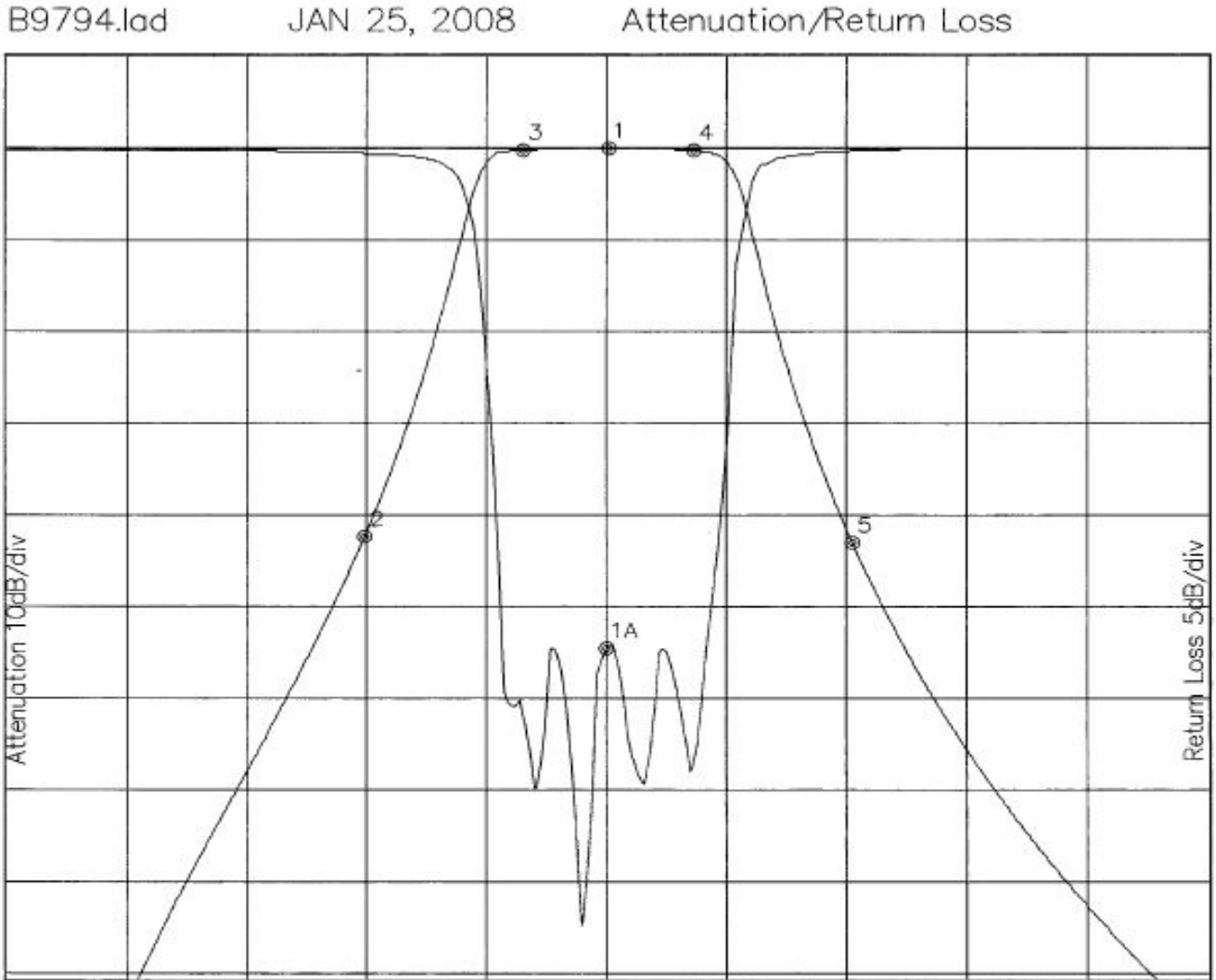
**Operating Temperature:**  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$   
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

### Outline Drawing:





### Response Plot:



Attenuation Start: 0.010Hz      Stop: 98.0MHz

Return Loss Start: 0.010Hz      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