



**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

## 390 MHz LC Bandpass Filter

Part Number: AE390B9770



### Electrical Specifications

**Center Frequency:** 390 MHz  
**Bandwidth:** 180 MHz  
**Passband :** 300 MHz to 480 MHz  
**Insertion Loss:**  $\leq 2$  dB  
**Return Loss:**  $>16$  dB from 300 MHz to 480 MHz  
**Rejection:**  $>60$  dB @ 0-200 MHz  
**Rejection2:**  $>40$  dB @ 250 MHz & 575 MHz  
**Rejection3:**  $>60$  dB @ 680 MHz to 3000 MHz  
**Impedance:** 50 Ohms  
**Power Handling:** 5 Watts

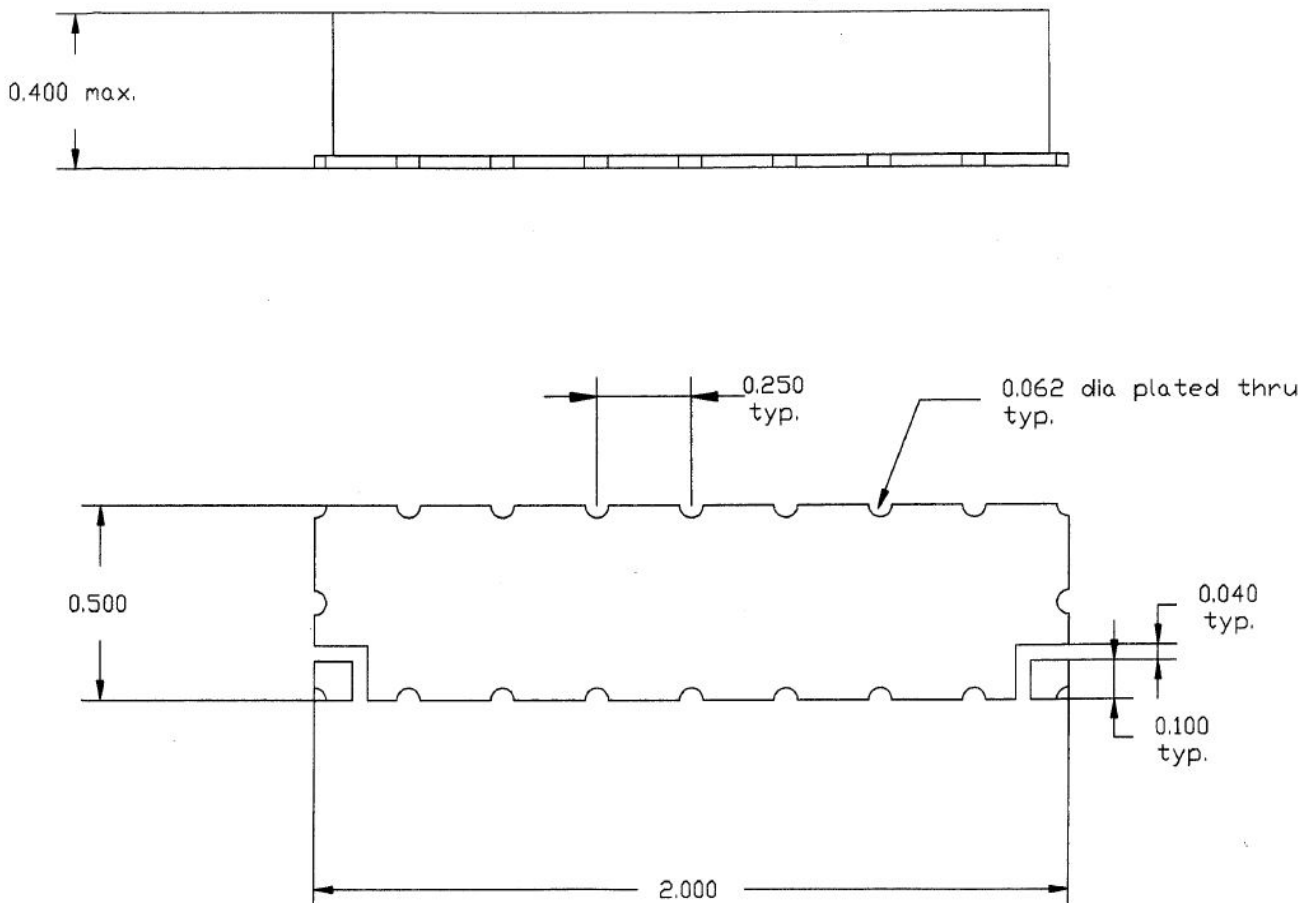
### Mechanical

**Mounting Method:** Through Holes  
**Dimensions:** 2.0" x 0.5" x 0.4" in.

### Environmental

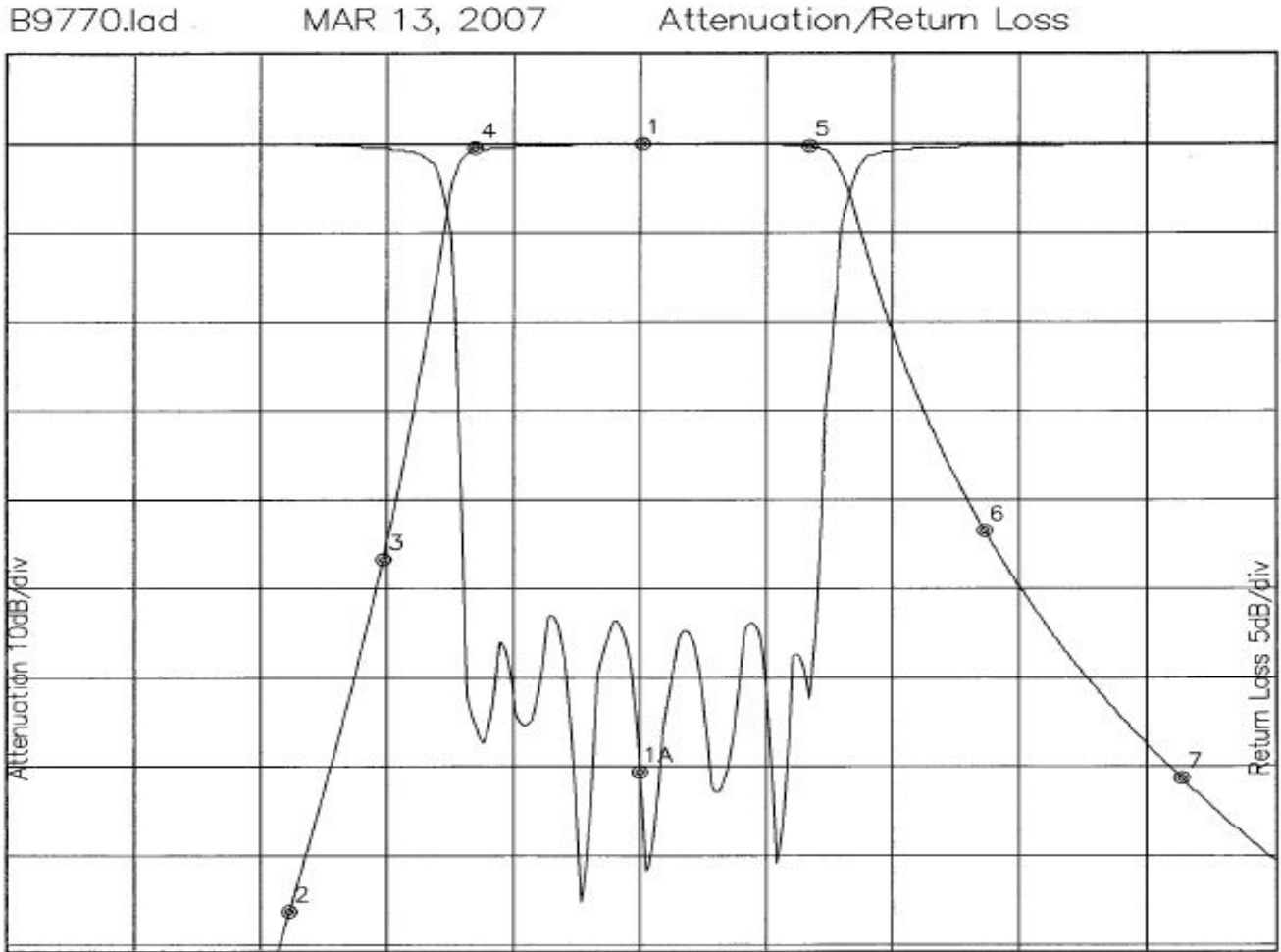
**Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
**Storage Temperature:**  $-50^{\circ}\text{C}$  to  $+95^{\circ}\text{C}$   
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

### Outline Drawing:





**Response Plot:**



Attenuation Start: 50.0MHz      Stop: 730.0MHz

Return Loss Start: 50.0MHz      Stop: 730.0MHz

Offset -0.6521dB

- Marker 1 Freq 390.54MHz Atten -0.008dB
- Marker 2 Freq 200.50MHz Atten -86.367dB
- Marker 3 Freq 251.03MHz Atten -46.646dB
- Marker 4 Freq 300.46MHz Atten -0.451dB
- Marker 5 Freq 480.63MHz Atten -0.269dB
- Marker 6 Freq 575.10MHz Atten -43.567dB
- Marker 7 Freq 680.56MHz Atten -71.408dB

Marker 1A Freq 389.45MHz Ret Loss -35.274dB