



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

## 3.5 MHz LC Bandpass Filter

**Part Number: AE3.5B9594**



### Electrical Specifications

**Center Frequency:** 3.5 MHz  
**Bandwidth:** 1 MHz  
**Passband :** 3 MHz to 4 MHz  
**Insertion Loss:** ≤ 2dB  
**Return Loss:** >15dB @3.6 MHz to 3.8 MHz  
**Rejection:** >50dB @2.36 MHz  
**Rejection2:** >50dB @ 5.08 MHz  
**Impedance:** 50 Ohms

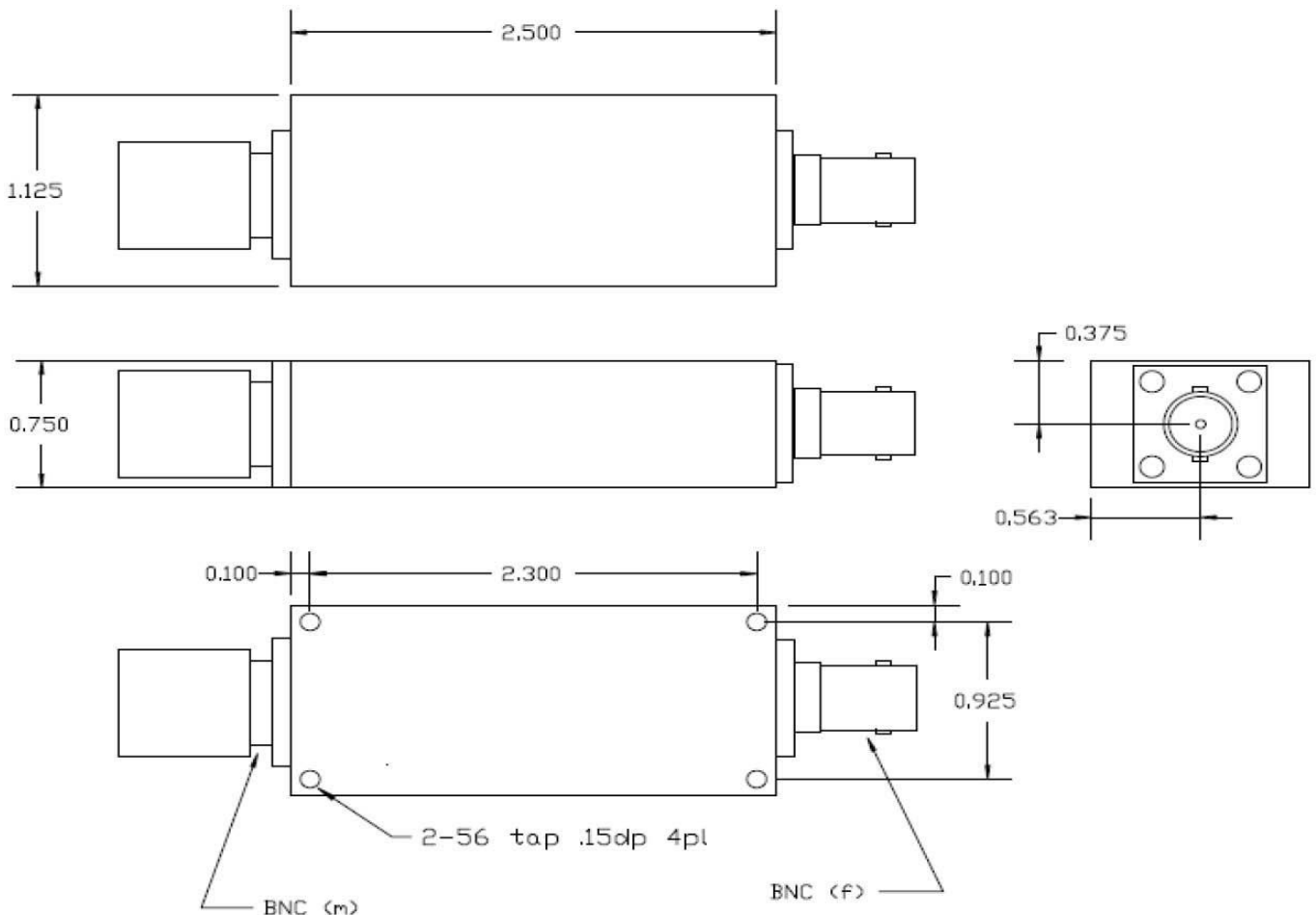
### Mechanical

**Connector Type:** BNC(Male) & BNC(Female)  
**Dimensions:** 2.5" x 1.125" x 0.750" in.

### Environmental

**Operating Temperature:** -25°C to +70°C  
**Storage Temperature:** -40°C to +90°C  
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

### Outline Drawing:



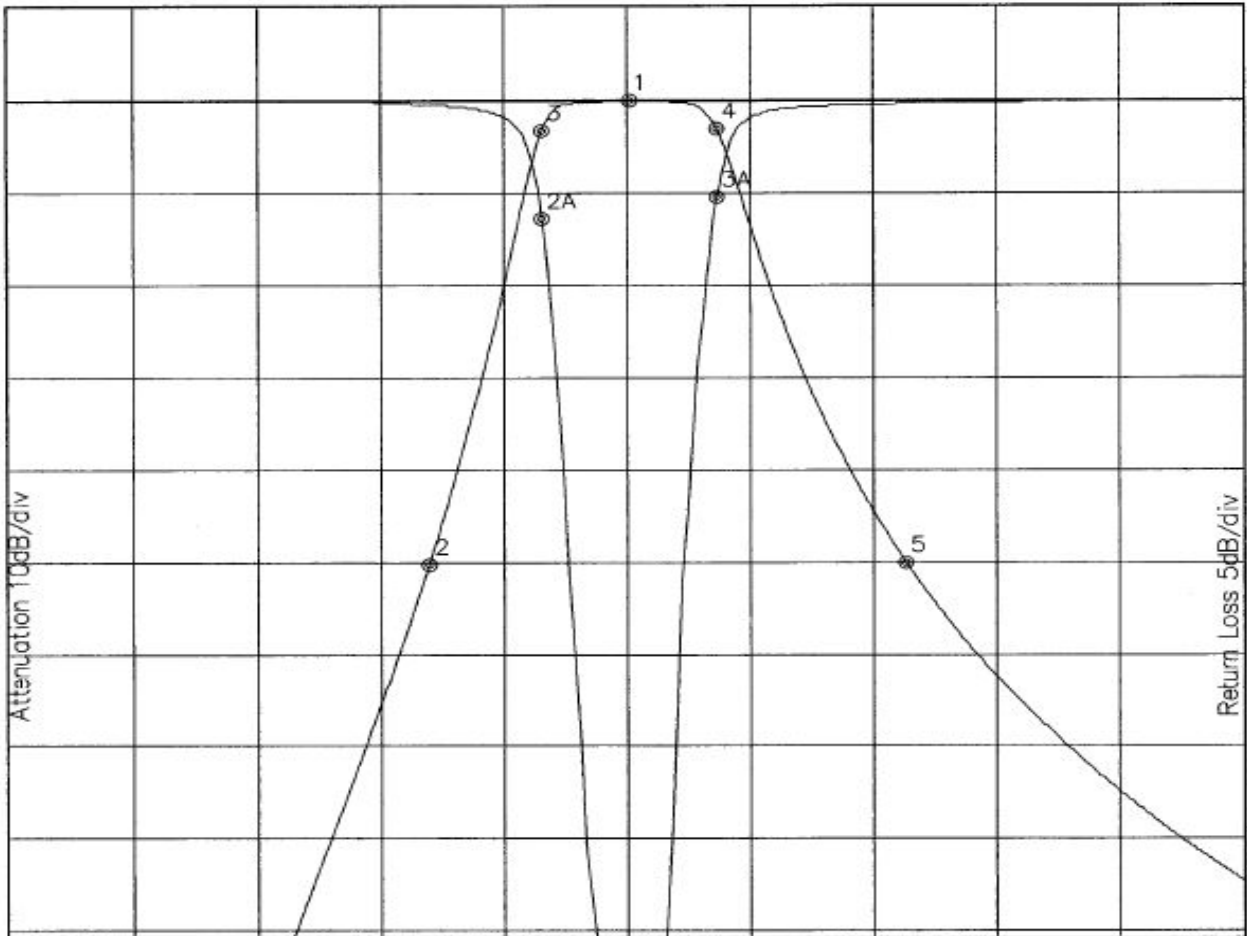


### Response Plot:

B9594.lad

AUG 13, 2007

Attenuation/Return Loss



Attenuation Start: 0.001Hz Stop: 7.0MHz

Return Loss Start: 0.001Hz Stop: 7.0MHz

Offset -1.0869dB

Marker 1 Freq 3.506MHz Atten -0.040dB  
Marker 2 Freq 2.363MHz Atten -50.124dB  
Marker 3 Freq 3.008MHz Atten -3.202dB  
Marker 4 Freq 4.003MHz Atten -3.074dB  
Marker 5 Freq 5.078MHz Atten -49.906dB

Marker 1A Freq 3.506MHz Ret Loss -55.621dB  
Marker 2A Freq 3.008MHz Ret Loss -6.363dB  
Marker 3A Freq 4.003MHz Ret Loss -5.261dB