



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

## 222 MHz LC Band Pass Filter

Part Number: AE222B5496



### Electrical Specifications

**Center Frequency:** 222 MHz  
**2 dB Bandwidth:** 15 MHz  
**3 dB Bandwidth :** 22 MHz  
**60 dB Bandwidth:** 34 MHz  
**Insertion Loss:** 2.0dB Max.  
**Return Loss @ 2 dB BW:** 16.0dB Min.  
**Rejection1:** 50 dB Min. @ 0-200 MHz  
**Rejection2:** 50 dB Min. @ 250-2500 MHz  
**Power Handling:** 10 W.

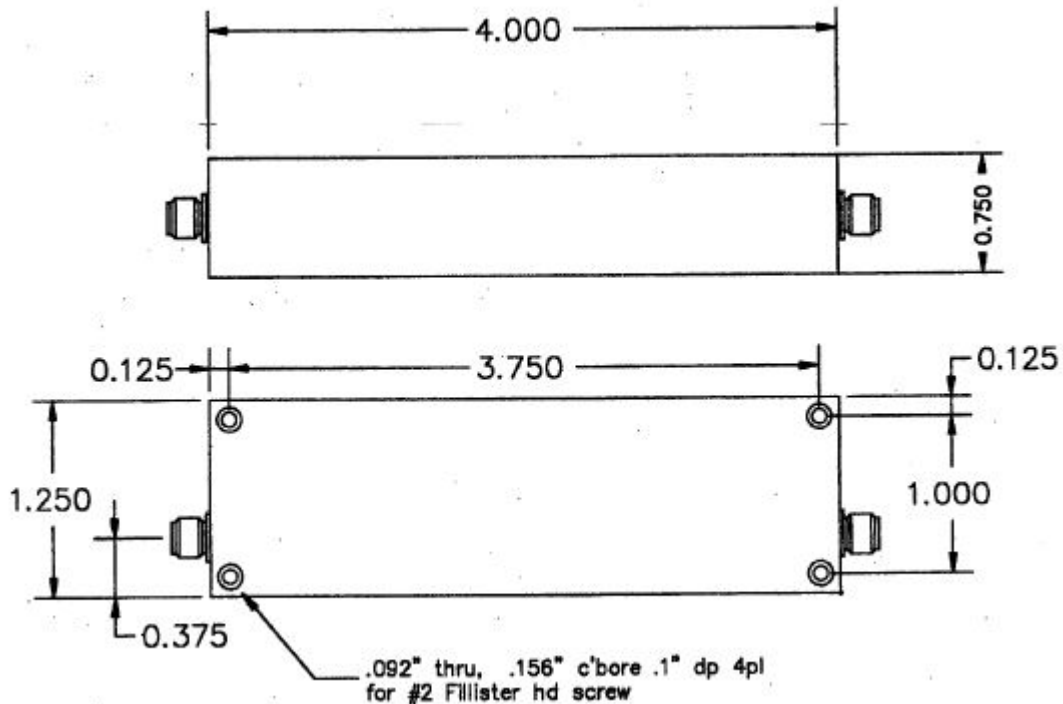
### Mechanical

**Mounting Method:** Through Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 4.0" X 1.25" x 0.75".

### 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:



Tolerance: +/-0.01 inches [+/- 0.3mm]

Angles: +/- 1 Deg.

\*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

\*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.

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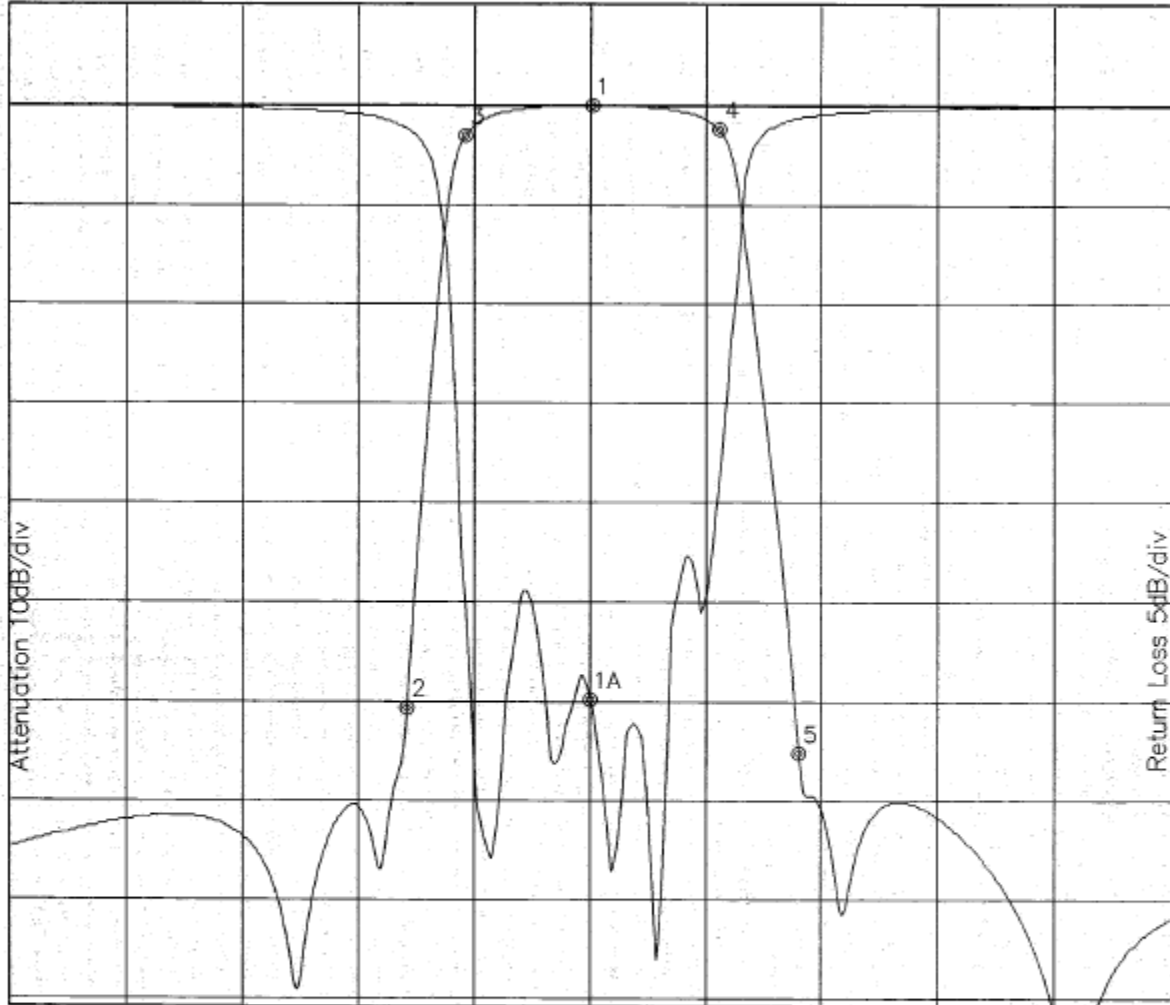


### Simulation Plot:

B5496.lad

JUL 8, 2000

Attenuation/Return Loss



Attenuation Start: 172.0MHz Stop: 272.0MHz

Return Loss Start: 172.0MHz Stop: 272.0MHz

Offset -1.9565dB

Marker 1 Freq 222.08MHz Atten 0.096dB

Marker 1A Freq 221.91MHz Ret Loss -29.846dB

Marker 2 Freq 206.08MHz Atten -60.567dB

Marker 3 Freq 211.09MHz Atten -3.008dB

Marker 4 Freq 233.06MHz Atten -2.472dB

Marker 5 Freq 240.01MHz Atten -65.321dB

Note: This is a simulated response plot. Actual performance might differ.