



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.

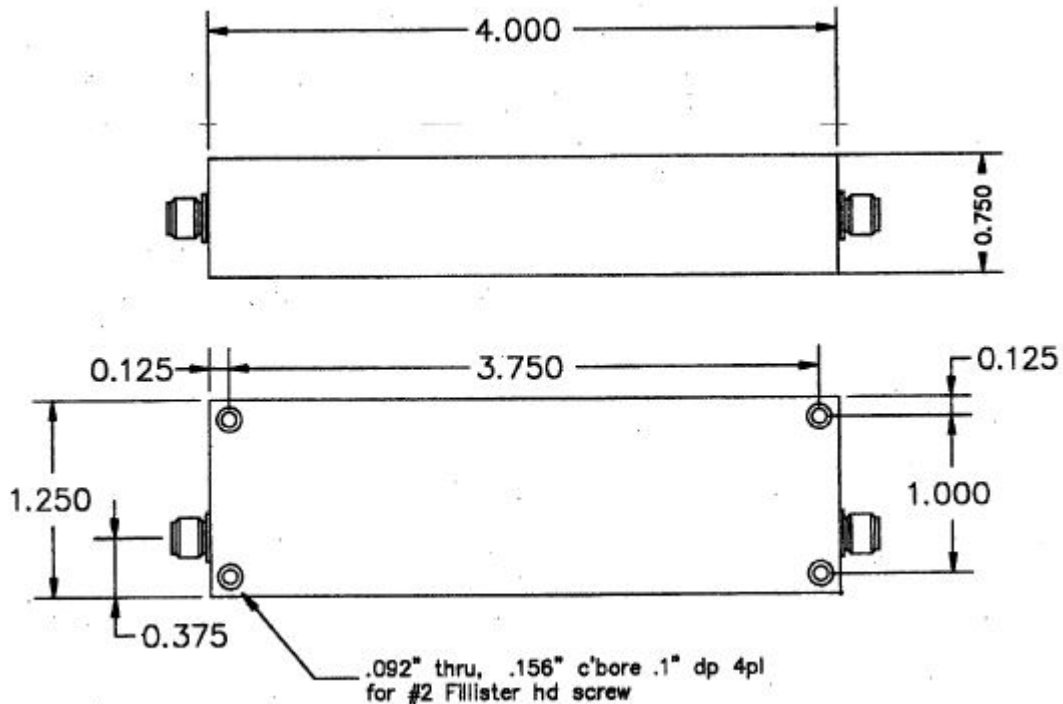
Mechanical

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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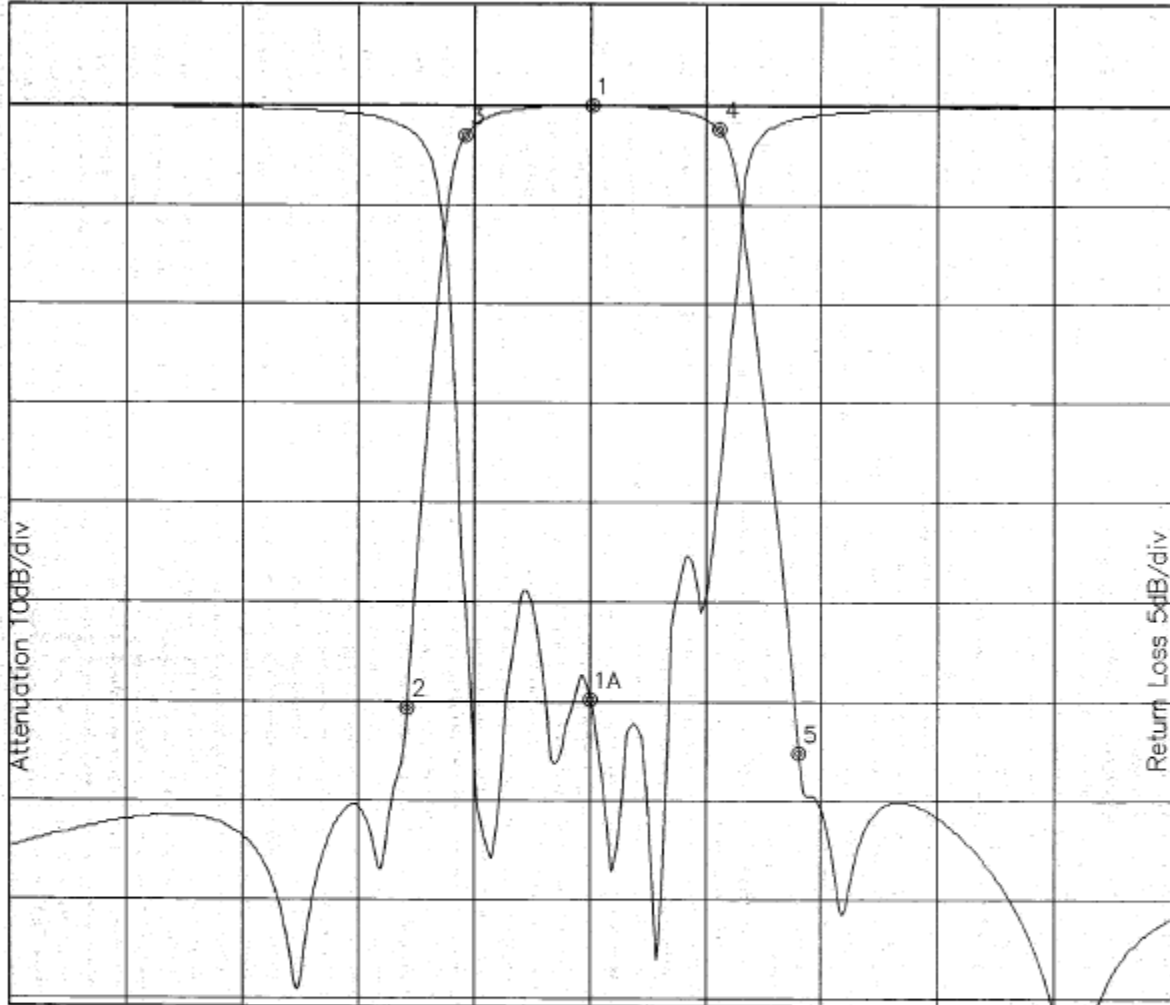


Simulation Plot:

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.