



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

64 MHz LC Band Pass Filter

Part Number: AE64B5452



Electrical Specifications

Center Frequency(CF): 64 MHz
3dB Passband: 53.86-76.25 MHz
Insertion Loss @ CF: 3.0dB Max.
Return Loss @ 59-70 MHz: 14.0dB Min.
Rejection1: 40 dB Min @ 45.49 MHz
Rejection2: 40 dB Min @ 90.16 MHz
Input/output Impedance: 50 Ohms
Power Handling: 10 W

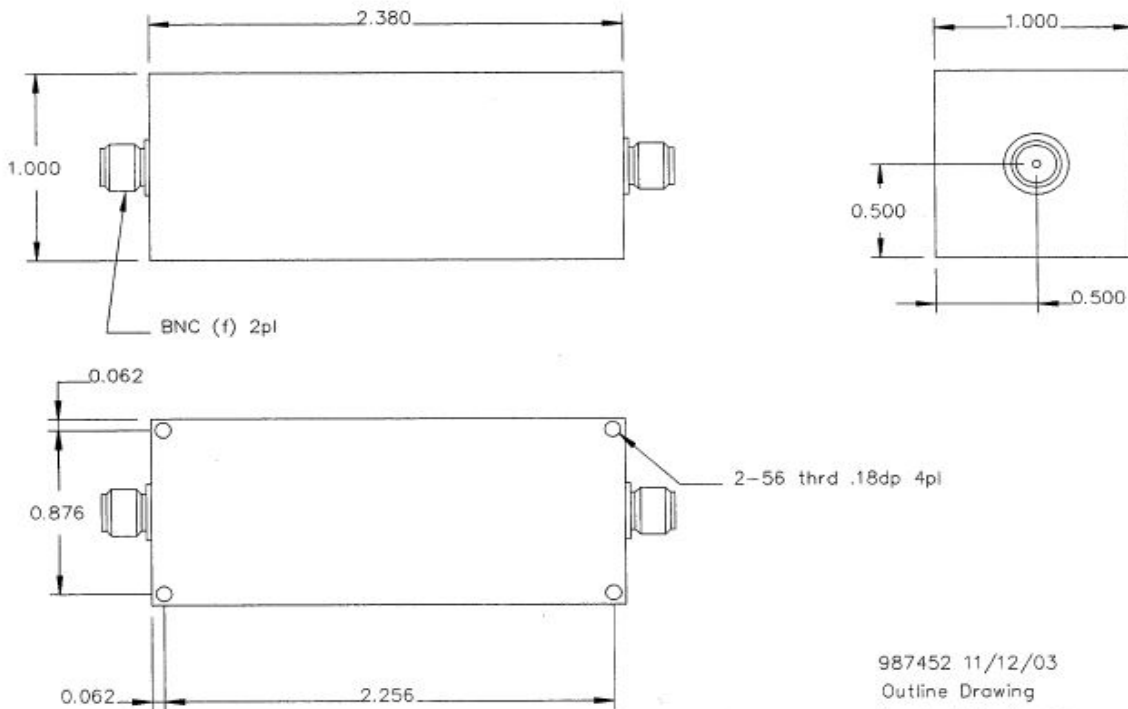
Mechanical

Mounting Method: Threaded Holes
Connector Type: SMA(F)
Dimensions: 2.38" X 1.0" x 1.0".

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:



987452 11/12/03
Outline Drawing
Anatech Electronics
(987007)

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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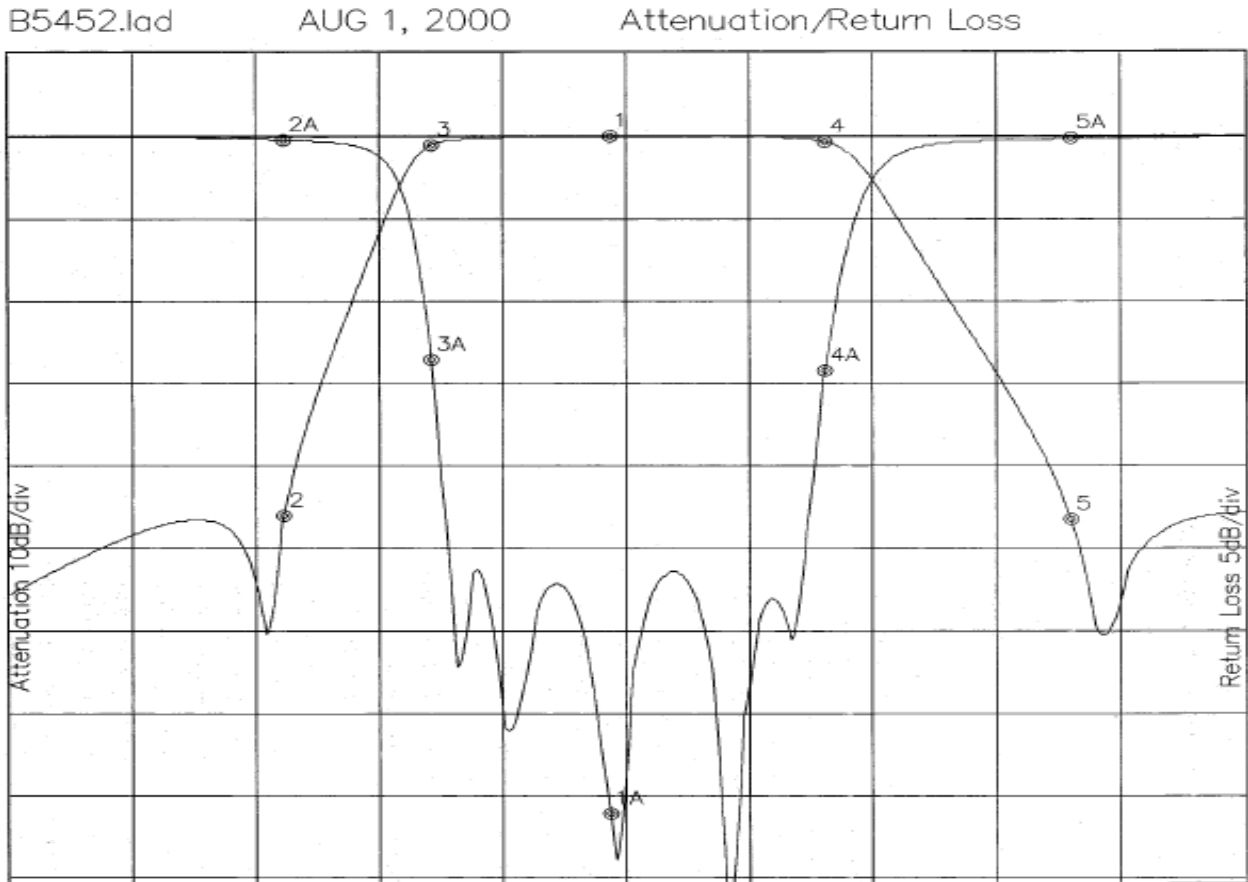
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Simulation Plot:



Attenuation Start: 30.0MHz Stop: 100.0MHz
Offset -0.6521dB

Return Loss Start: 30.0MHz Stop: 100.0MHz

Marker 1 Freq 64.039MHz Atten 0.059dB
Marker 2 Freq 45.493MHz Atten -45.994dB
Marker 3 Freq 53.861MHz Atten -1.029dB
Marker 4 Freq 76.252MHz Atten -0.612dB
Marker 5 Freq 90.162MHz Atten -46.555dB

Marker 1A Freq 64.039MHz Ret Loss -41.067dB
Marker 2A Freq 45.493MHz Ret Loss -0.192dB
Marker 3A Freq 53.861MHz Ret Loss -13.613dB
Marker 4A Freq 76.252MHz Ret Loss -14.250dB
Marker 5A Freq 90.162MHz Ret Loss -0.149dB

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