



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

300 MHz LC Band Pass Filter

Part Number: AE300B5394



Electrical Specifications

Center Frequency: 300 MHz
Passband: 225 MHz to 400 MHz
Insertion Loss In PB: 0.5dB Max.
Return Loss: 14dB Min.
Rejection1: 80dB Min @ 75 MHz
Rejection2: 45dB Min @ 421.7-423.3 MHz
Rejection3: 60dB Min @ 800 MHz to 2000 MHz
Input/output Impedance: 50 Ohms
Power Handling: 5 Watts

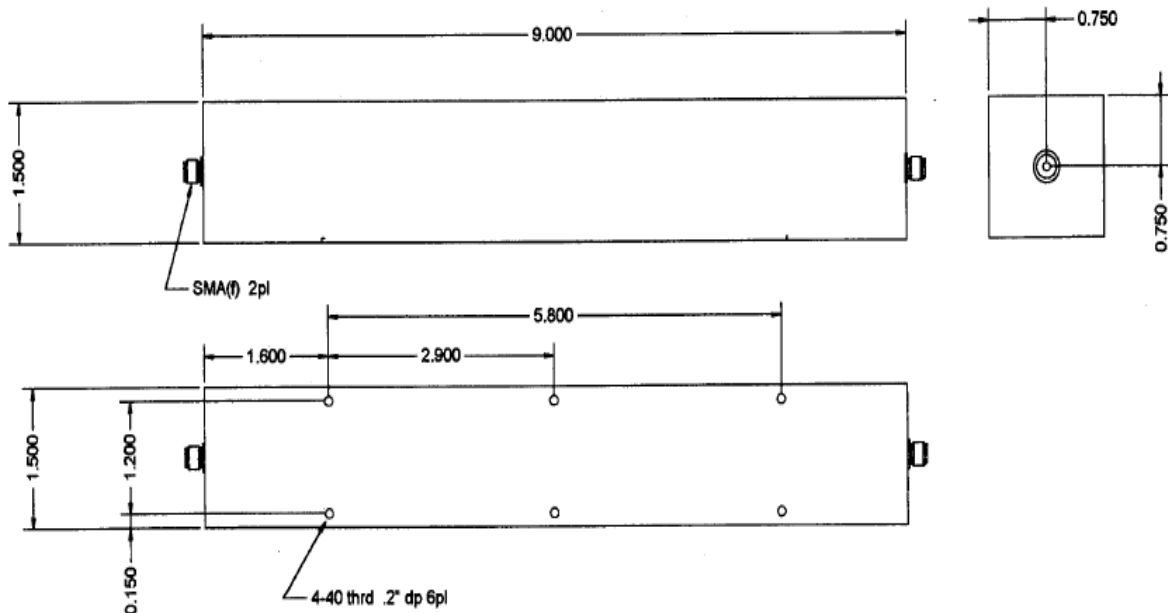
Mechanical

Mounting Method: Threaded Mounting Holes
Connector Type: SMA(F)
Dimensions: 9.0" X 1.5" x 1.5" 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:



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

Angles: +/- 1 Deg.

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

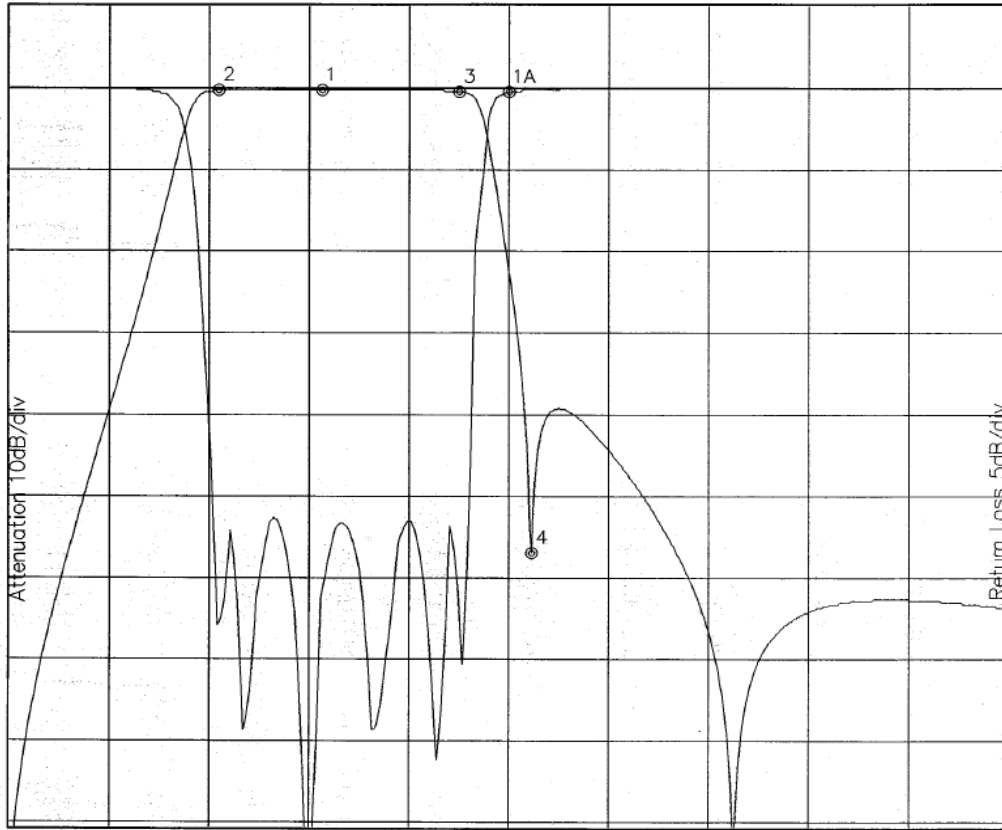
*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.

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Response Plot:



Attenuation Start: 75.0MHz Stop: 800.0MHz

Return Loss Start: 75.0MHz Stop: 800.0MHz

Marker 1 Freq 301.05MHz Atten -0.190dB
Marker 2 Freq 226.09MHz Atten -0.303dB
Marker 3 Freq 400.60MHz Atten -0.436dB
Marker 4 Freq 453.31MHz Atten -57.018dB

Marker 1A Freq 436.91MHz Ret Loss -0.178dB

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