



**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

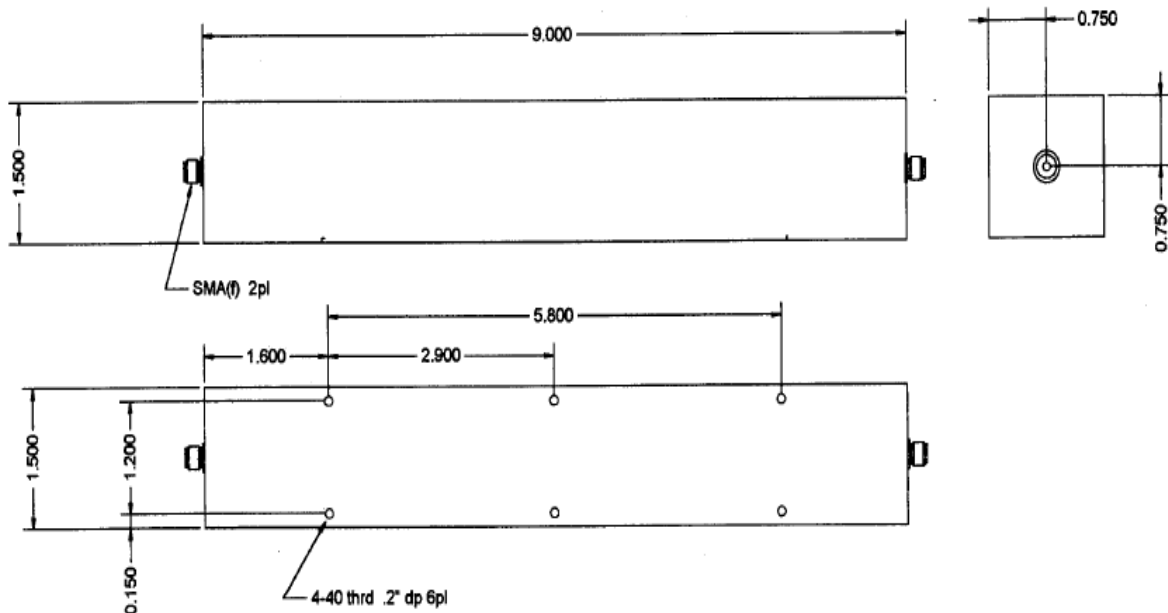
## Mechanical

**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.

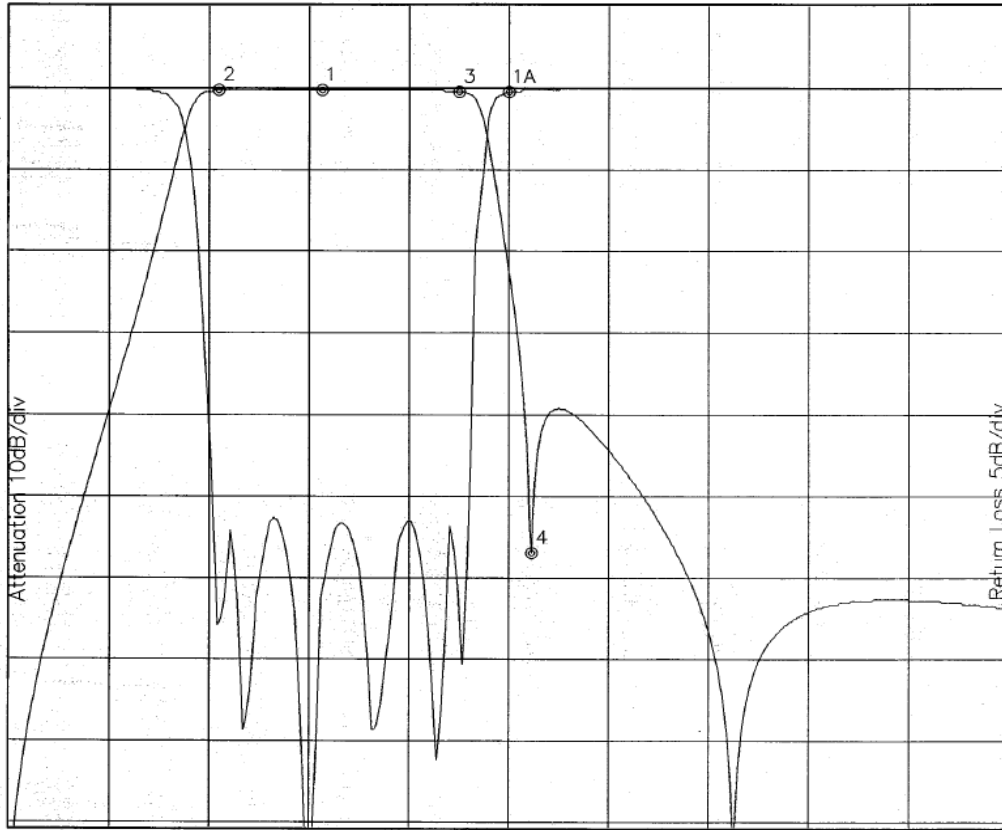
\*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.

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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.