



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

# 3150 MHz Cavity Band Pass Filter

**Part Number: AE3150B11681**



## Electrical specifications

**Center Frequency (CF):** 3150 MHz  
**Relative Bandwidth (1 dB):** 505 MHz Min.  
**Ripple in Passband:** 0.5 dB Max.  
**Insertion loss @ CF:** 1 dB Max.  
**Return loss @ CF:** 13 dB Min  
**Rejection @ CF ± 750 MHz:** 40 dB Min  
**Impedance:** 50 Ohms

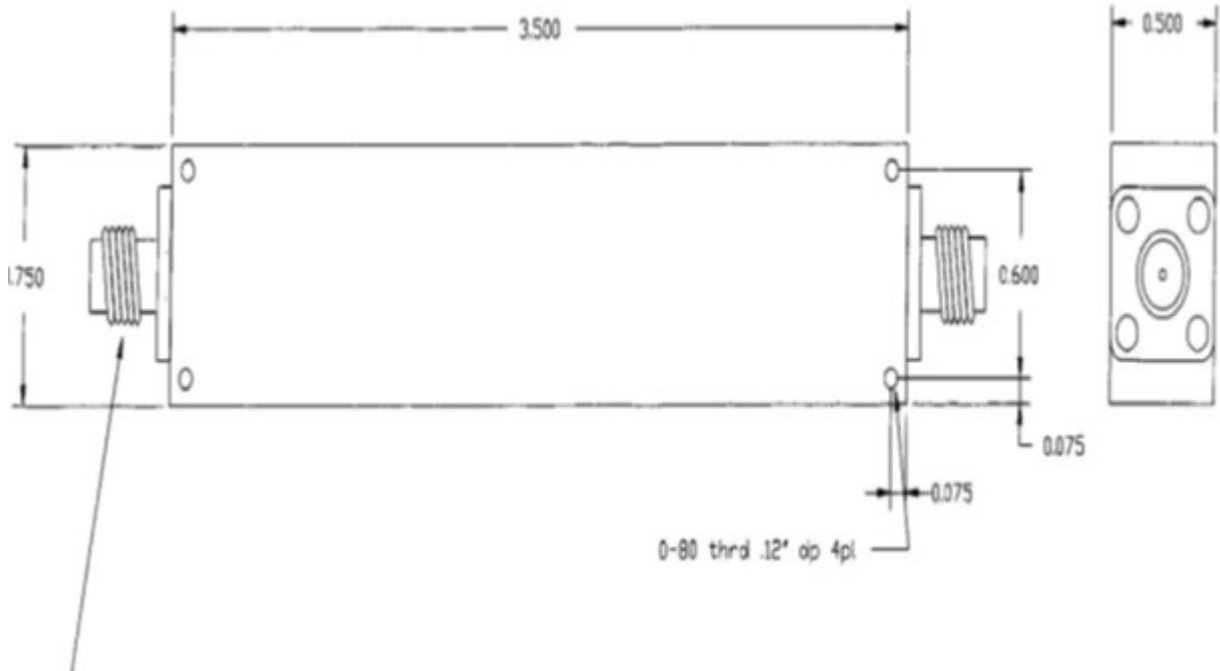
## Mechanical

**Mounting Method:** Threaded Holes  
**Connector Type:** SMA (F)  
**Dimensions:** 3.50 x 0.75 x 0.50 Inches

## Environmental

**Operating Temperature:** -55 to +85° C  
**Humidity:** Up to 95%  
**Vibration (5 to 1000 Hz):** 10 G Max  
**Shock (11 Milliseconds):** 30 G Max

## Outline Drawing:



2 decimal places: +/- 0.01 inches [ +/- 0.3mm]  
 3 decimal places: +/- 0.005 inches [ +/- 0.13mm]  
 Angles: +/- 1 Deg.

*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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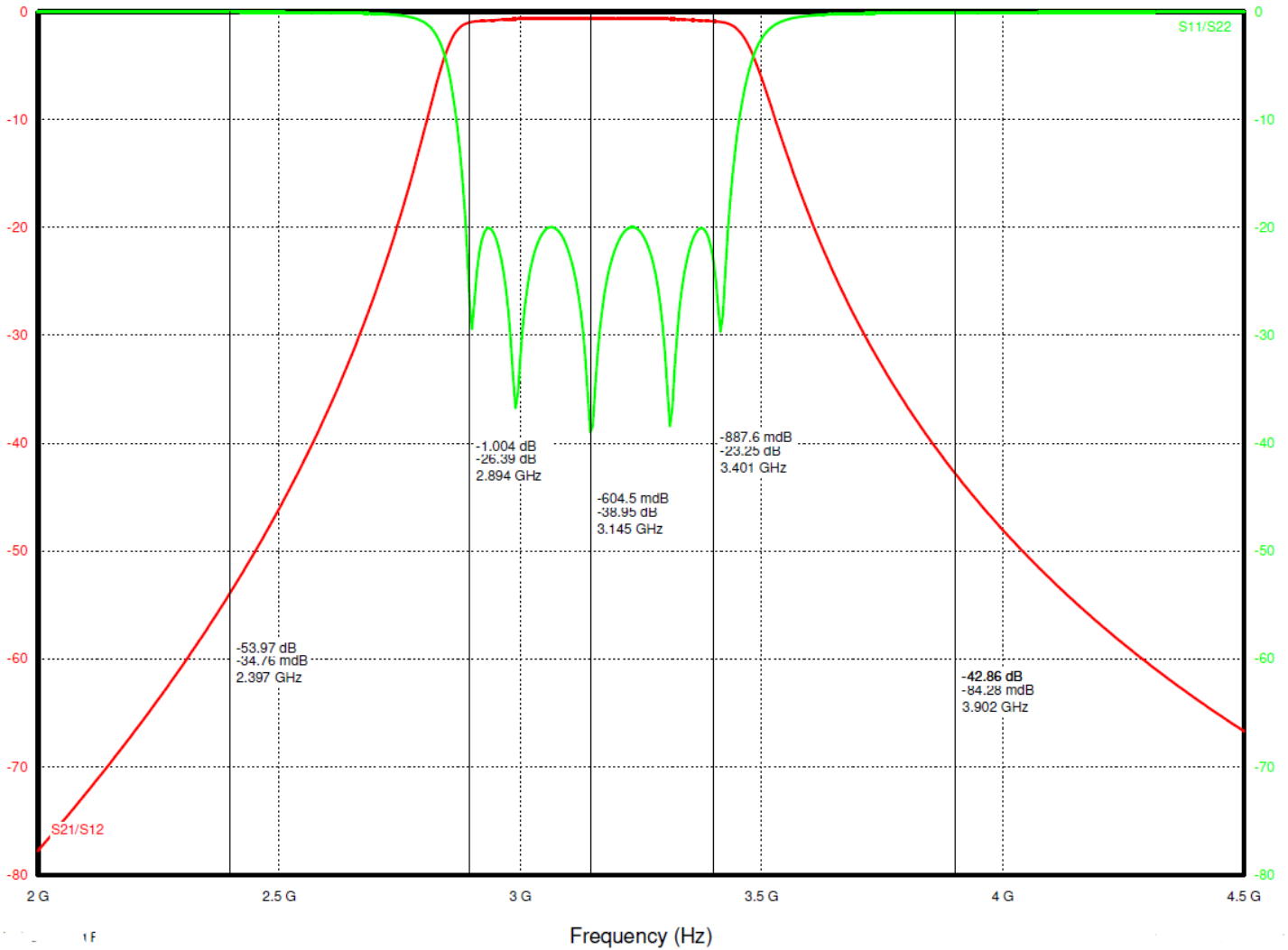
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### Simulated Plot :

Lumped Filter S Parameters



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