



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

# 540 MHz Band Pass Filter

**Part Number: AE540B11317**



## Electrical Specifications

**Center Frequency:** 540 MHz  
**Relative Bandwidth:** 450 MHz Max  
**3.0 dBc:** 630 MHz Min  
**Insertion Loss:** 1.0 dBa Max at 500-580 MHz  
 0.5 dBa Min  
**In/Out VSWR:** 1.50:1 Max from 500 MHz Max to  
 580 MHz Min  
**Deviation from Linear Phase:**  $\pm 1.5^\circ$  from 500-580 MHz  
**Deviation from Linear Phase in any 40 MHz span:**  
 $\pm 0.5^\circ$  from 500-580 MHz  
**Stopband Rejection:** >3.0 dBc @ 420 MHz  
 >3.0 dBc @ 660 MHz  
 >20 dBc @ 264 MHz  
 >17 dBc @ 816 MHz  
 >30 dBc @ 1-250 MHz  
 >30 dBc @ 1050-1700 MHz  
 >10 dBc @ 1700-3500 MHz

**Impedance:** 50  $\Omega$   
**Input Power (max to 10K ft):** 1 W Average, 2 W Peak

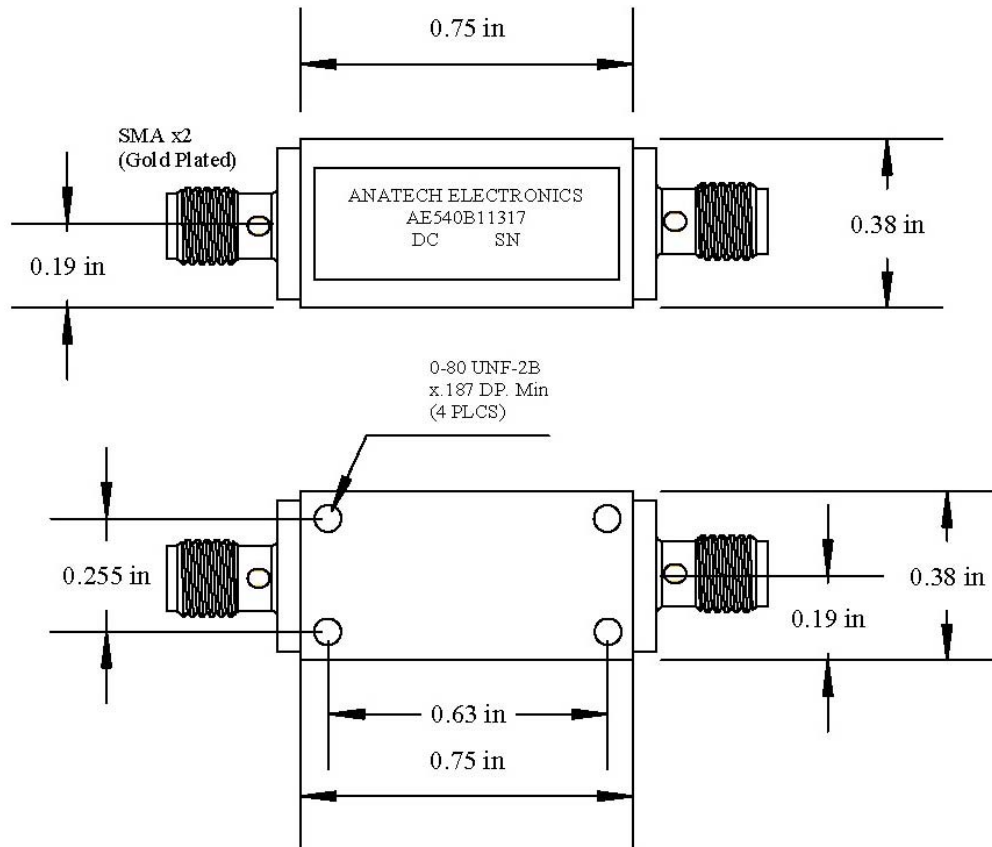
## Mechanical

**Connector Type:** SMA (F)  
**Dimensions:** 0.75 x 0.38 x 0.38 Inches

## Environmental

**Operating Temperature:** -25 to +75° C  
**Storage Temperature:** -40 to +85° C  
**Shock:** 20 G. 11 ms  
**Vibration:** 10 G. 10 to 500 Hz  
**Relative Humidity:** 95%

## 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.



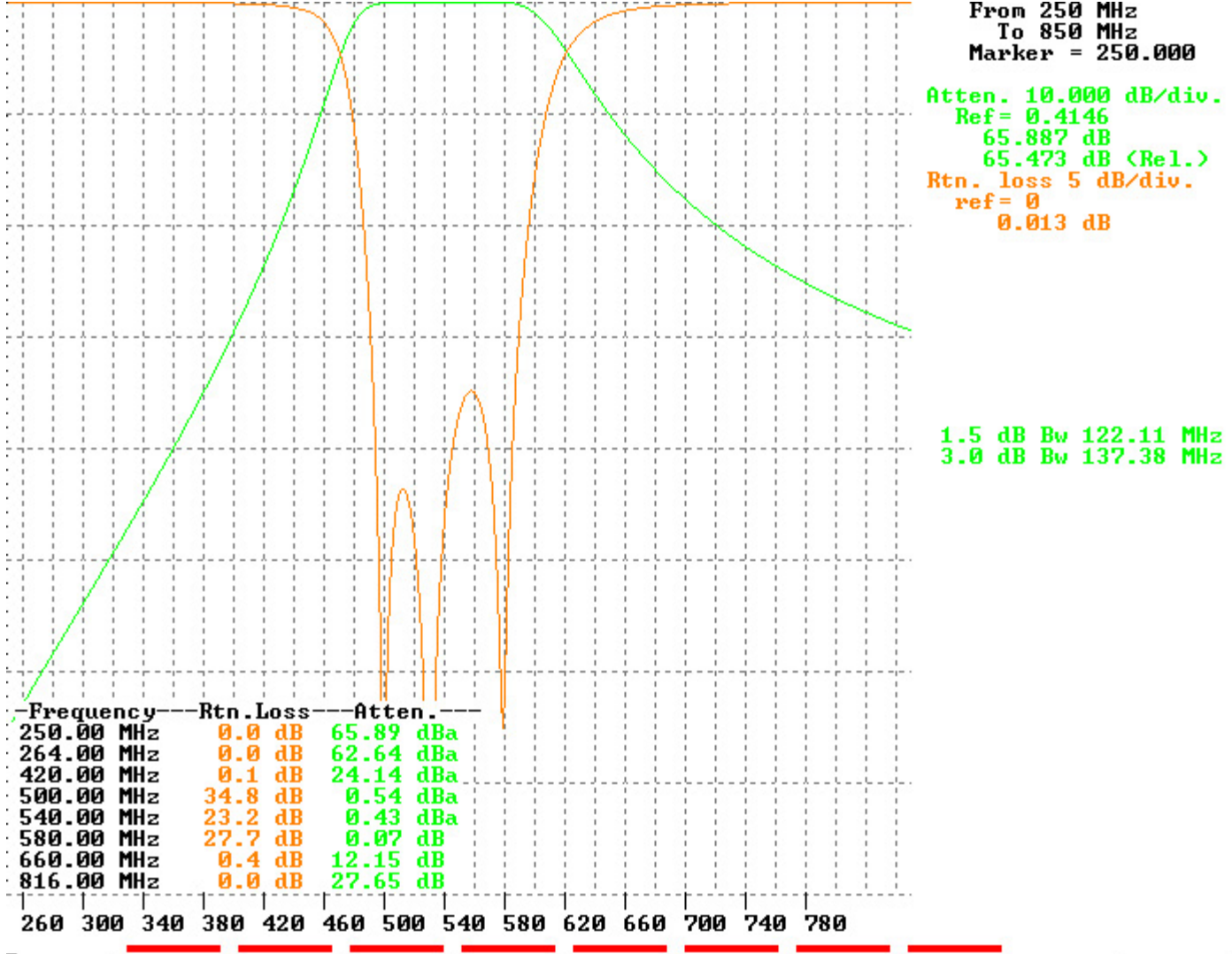
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## Simulation Plot:



**Note:** This is a simulation plot. Actual results may differ once the product is implemented.