



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

# 52 MHz LC Band Pass Filter

**Part Number: AE52B11183**



## Electrical Specifications

**Passband:** 3.0 dB C/O 52 MHz  
**Insertion Loss:** 2.0 dB @ 46.8 MHz  
**VSWR:** 1.5:1 Max. @ 46.8 MHz  
**Stop Band:** Curve

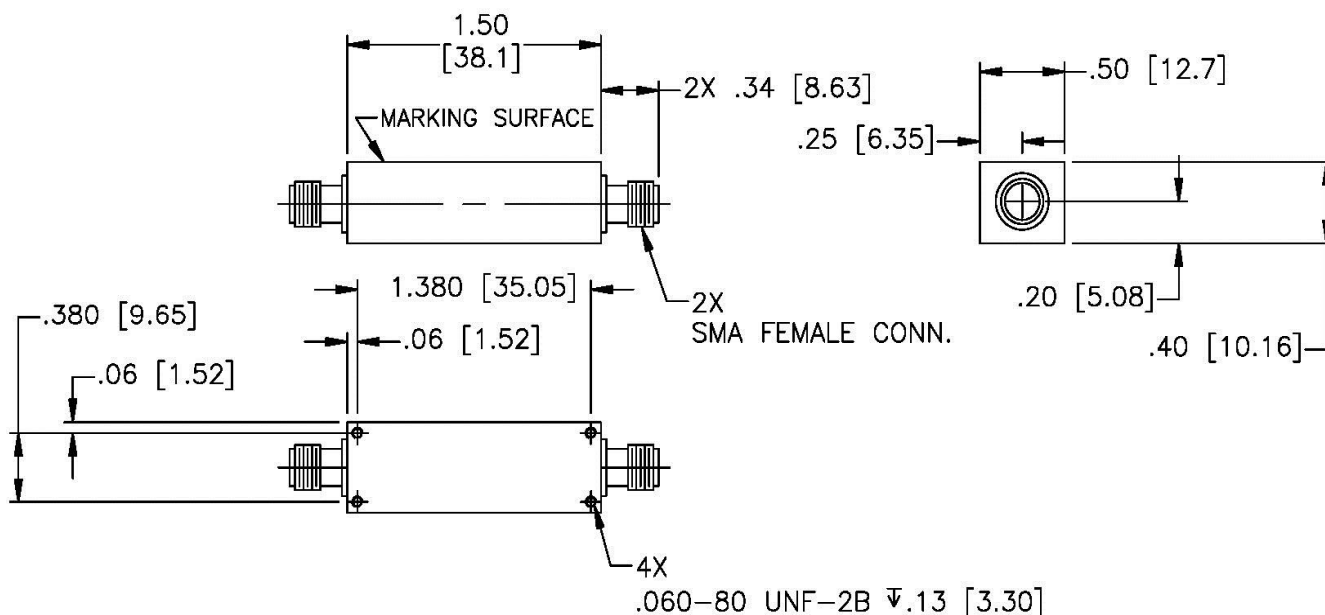
## Mechanical

**Mounting Method:** 0-80 Threaded Mounting  
**Connector Type:** SMA (F)  
**Dimensions:** 1.50 x 0.50 x 0.40 In.

## Environmental

**Operating Temperature:** -20° C to +70° C  
**Storage Temperature:** -55° C to +95° C  
**Shock:** 10 G.11ms  
**Vibration:** 10 G. 5 to 200Hz

## Outline Drawing:



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

Angles: +/- 1 Deg.

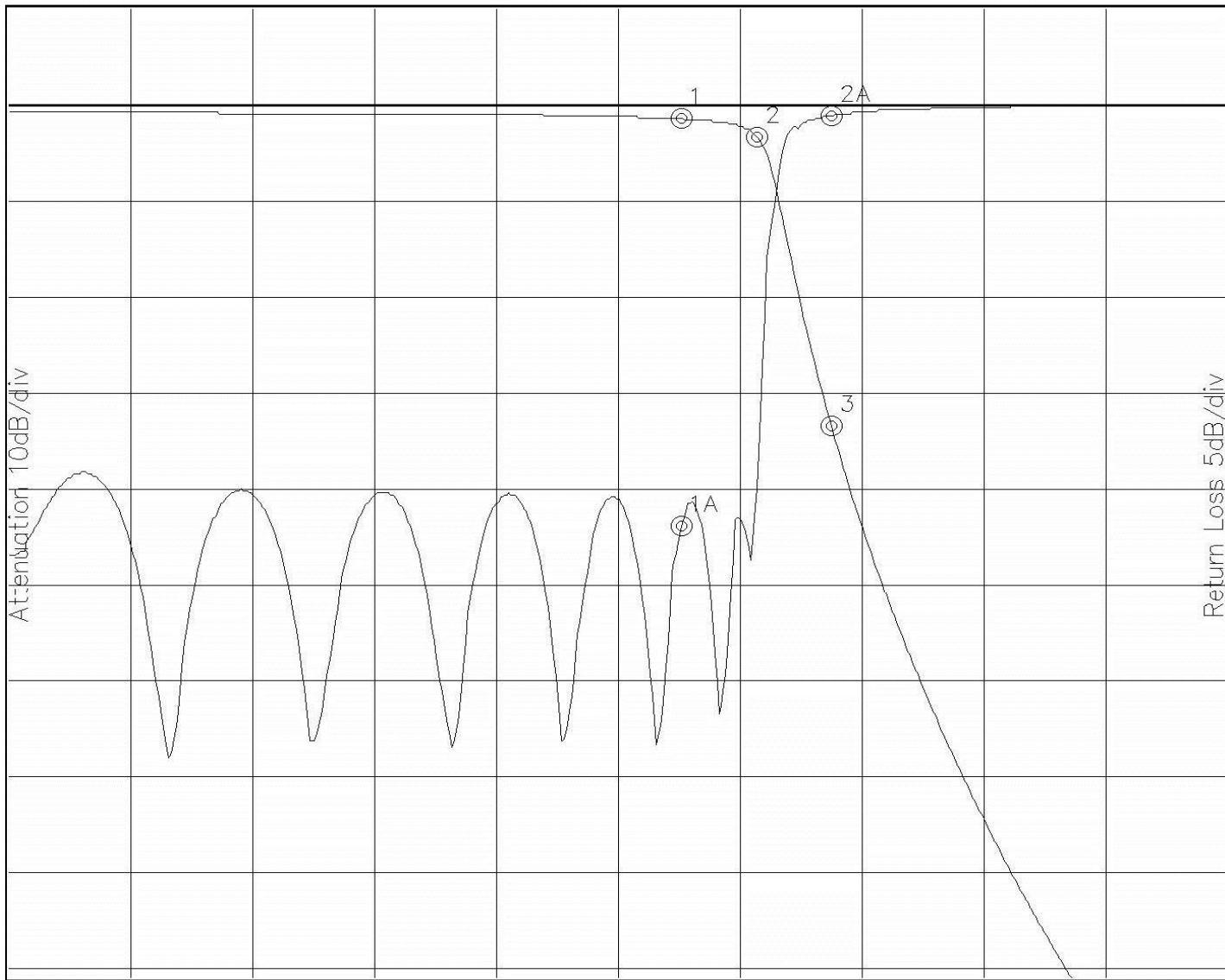
\*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

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

Reference DCR: D052919-01B



### Simulation Plot:



Attenuation Start: 0.009Hz Stop: 85.0MHz

Return Loss Start: 0.009Hz Stop: 85.0MHz

Marker 1 Freq 46.826MHz Atten -1.405dB

Marker 1A Freq 46.826MHz Ret Loss -21.864dB

Marker 2 Freq 52.044MHz Atten -3.200dB

Marker 2A Freq 57.262MHz Ret Loss -0.516dB

Marker 3 Freq 57.262MHz Atten -33.298dB

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