



# 10 MHz LC Band Pass Filter

**Part Number: AE10B11179**



## Electrical Specifications

**Center Frequency:** 10 MHz  
**3dB Bandwidth:** 10 MHz  
**Passband:** 5-15 MHz  
**Insertion Loss:** 2.0 dB @ 10MHz  
**VSWR:** 1.7:1 Max. @ 5-15 MHz  
**Rejection1:** 40dB Min. @ DC-3 MHz  
**Rejection2:** 40dB Min. @ 17 MHz  
**Power Handling:** 15 Watts Average

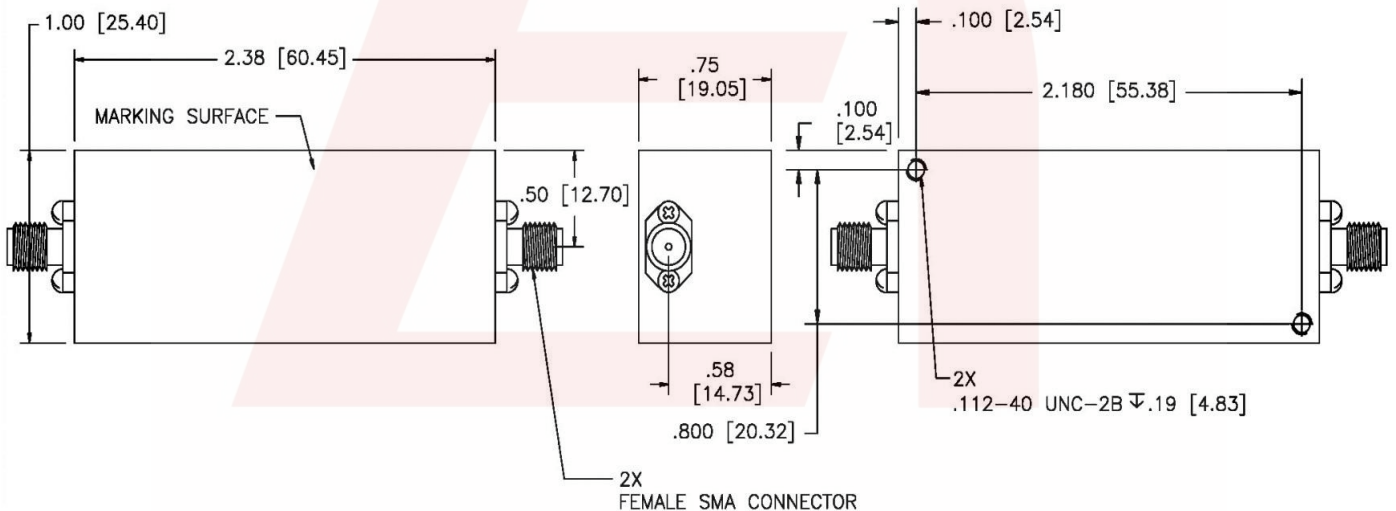
## Mechanical

**Mounting Method:** 4-40 Threaded Mounting  
**Connector Type:** SMA (F)  
**Dimensions:** 2.38 x 1.0 x 0.75 Inches

## 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:



DS-B11179-06122019-Rev0

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

Angles: +/- 1 Deg.

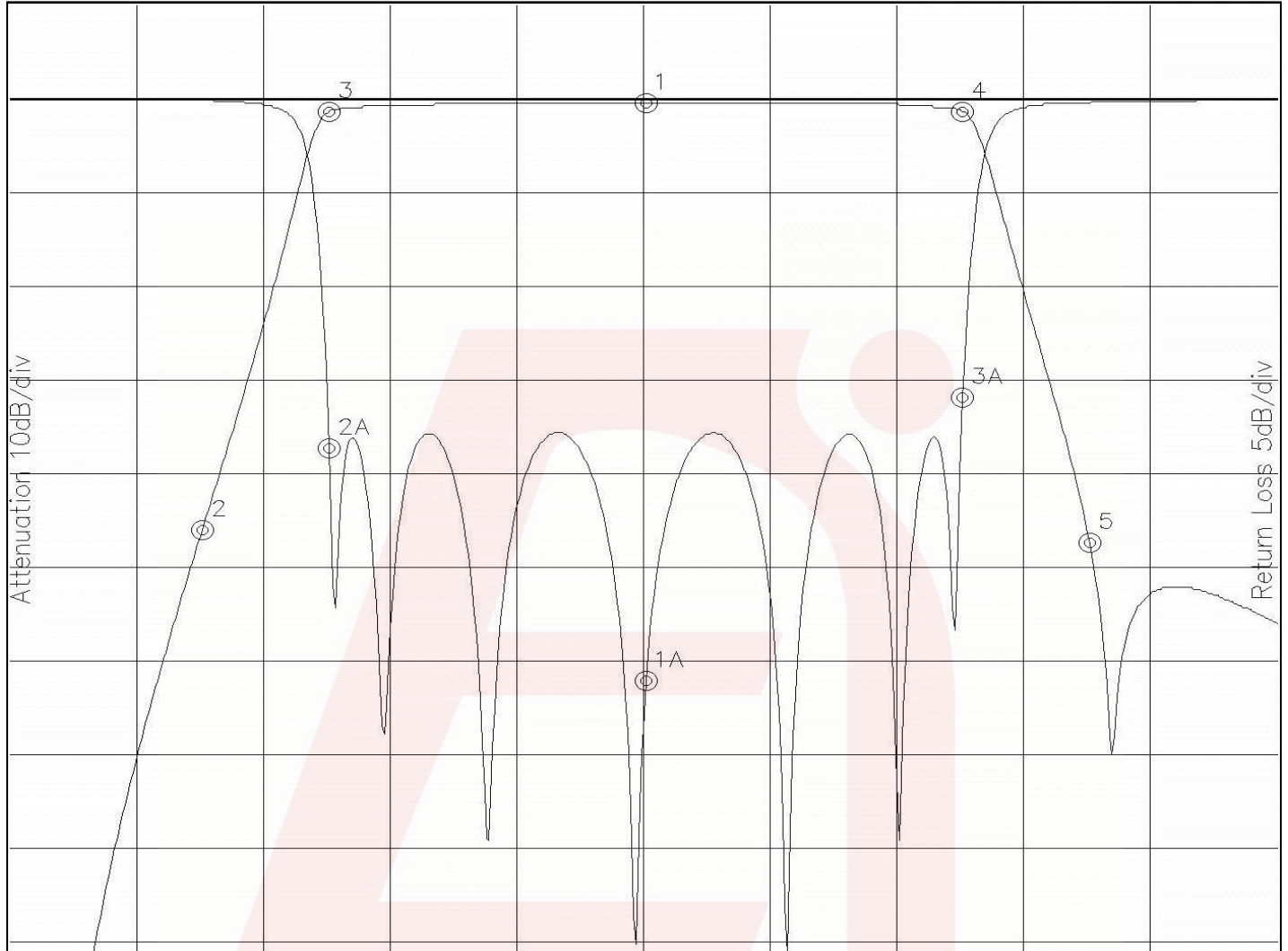
\*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

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

Reference DCR: D052919-02A



**Simulation Plot:**



Attenuation Start: 0.002Hz Stop: 20.0MHz

Return Loss Start: 0.002Hz Stop: 20.0MHz

Marker 1 Freq 10.016MHz Atten -0.351dB  
 Marker 2 Freq 3.005MHz Atten -45.783dB  
 Marker 3 Freq 5.008MHz Atten -1.295dB  
 Marker 4 Freq 15.024MHz Atten -1.258dB  
 Marker 5 Freq 17.027MHz Atten -47.243dB

Marker 1A Freq 10.016MHz Ret Loss -30.971dB  
 Marker 2A Freq 5.008MHz Ret Loss -18.605dB  
 Marker 3A Freq 15.024MHz Ret Loss -15.831dB

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