



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

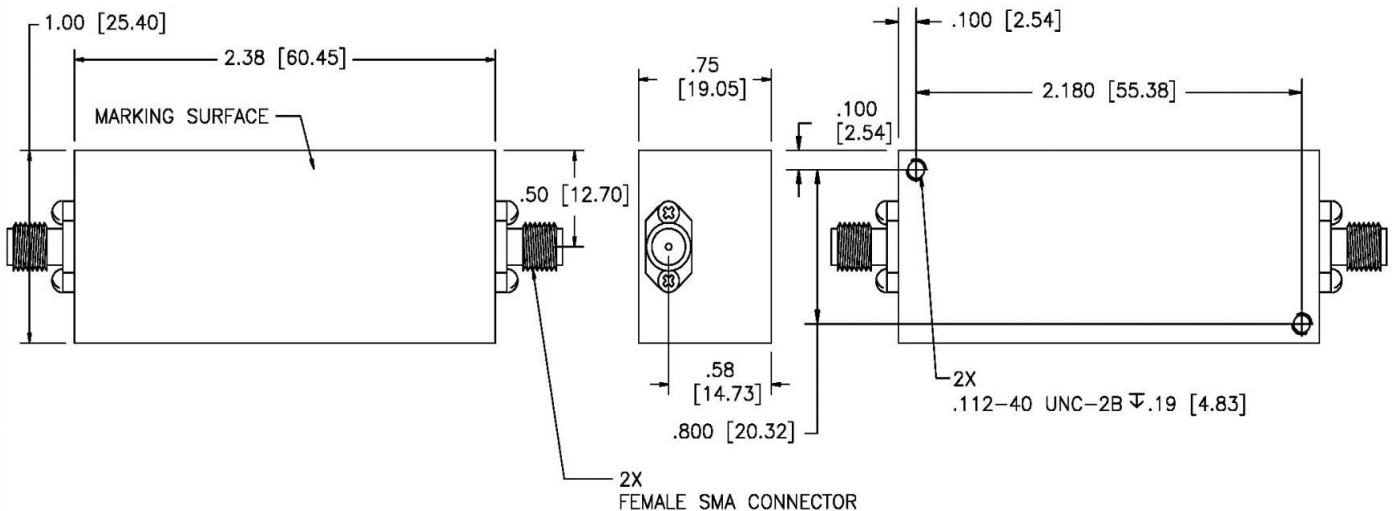
Mechanical

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:



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

Angles: +/- 1 Deg.

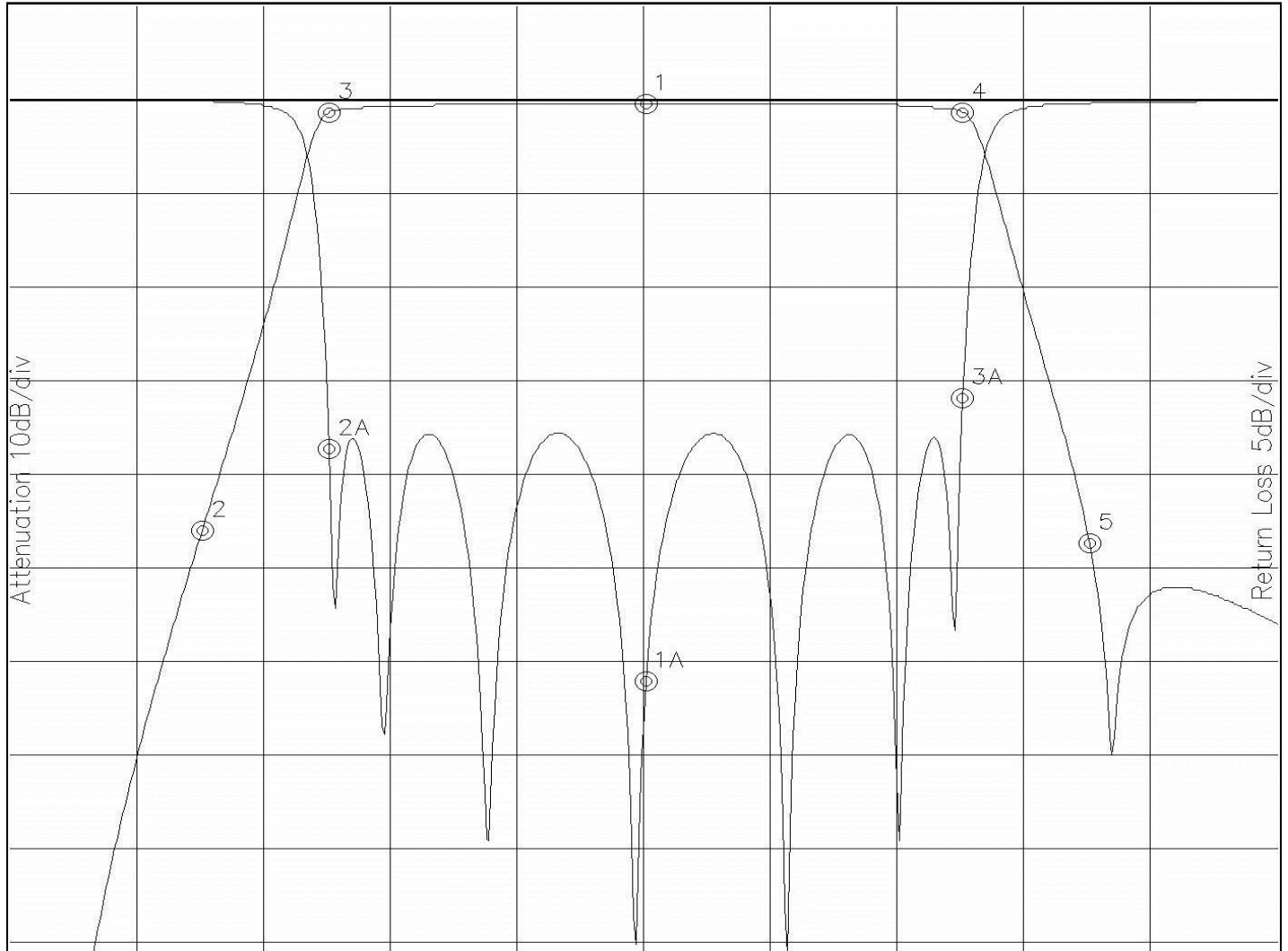
*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

*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.