



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

# 4300 MHz Cavity Bandpass Filter

**Part Number: AB4300B802**



## Electrical specifications

**Center Frequency (Fc):** 4300 MHz  
**Bandwidth (BW):** 120 MHz Min  
**Passband:** 4240-4360 MHz  
**Insertion Loss @ BW:** 0.8 dB Max  
**Ripple:** 0.2 dB Max  
**Return Loss in BW:** 15 dB Min  
**Rejection:** 20 dB Min @  $\leq 4200$  MHz  
**Rejection:** 20 dB min. @  $\geq 4400$  MHz  
**Rejection 3:** 80 dB Min @  $2 \cdot F_c$   
**Power Handling:** 30 W  
**Input / Output Impedance:** 50 Ohms

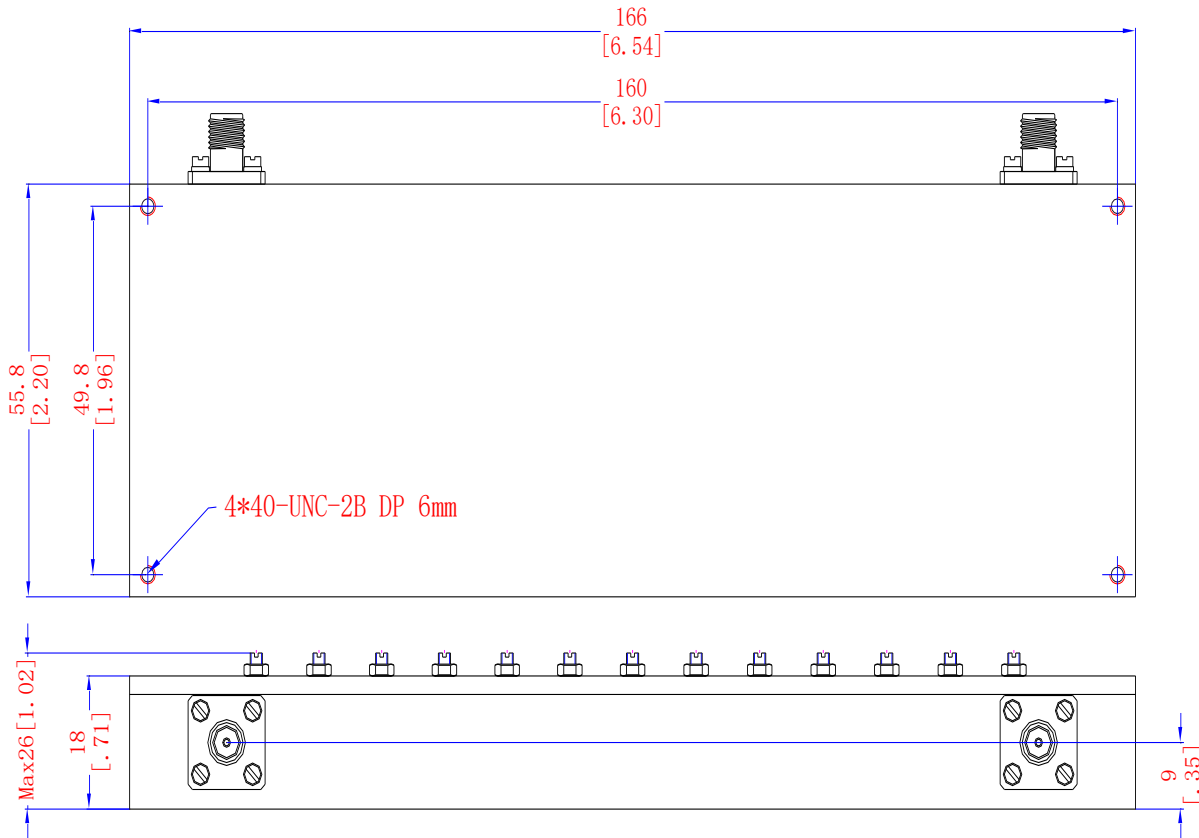
## Mechanical

**Mounting Method:** 4-40 Threaded Holes  
**Connector Type:** SMA Female  
**Dimensions (in):** 6.54 x 2.20 x 0.71  
**Dimensions (mm):** 166 x 55.8 x 18

## Environmental

**Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**Storage Temperature:**  $-55^{\circ}\text{C}$  to  $+95^{\circ}\text{C}$   
**Shock:** 20 G. 11ms half sine wave, 3 axis both directions  
**Vibration:** 20 G. 20 to 200 Hz

## Outline Drawing:



Tolerance:  $\pm 0.01$  inches [ $\pm 0.3$ mm]

Angles:  $\pm 1$  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.