



# 1747.5 MHz Cavity Bandpass Filter

Part Number: AE1747B11459



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

## Electrical specifications

**Center Frequency:** 1747 MHz  
**Bandwidth:** 1710 - 1785 MHz  
**Insertion Loss:** 2.0 dB Max  
**Return Loss:** 15 dB Min  
**Ripple:** 0.8 dB Max  
**Rejection:** 40 dB min @ DC - 1690 MHz  
**Rejection:** 40 dB min @ 1805 - 4000 MHz  
**Impedance:** 50 Ω  
**Power Handling:** 50W

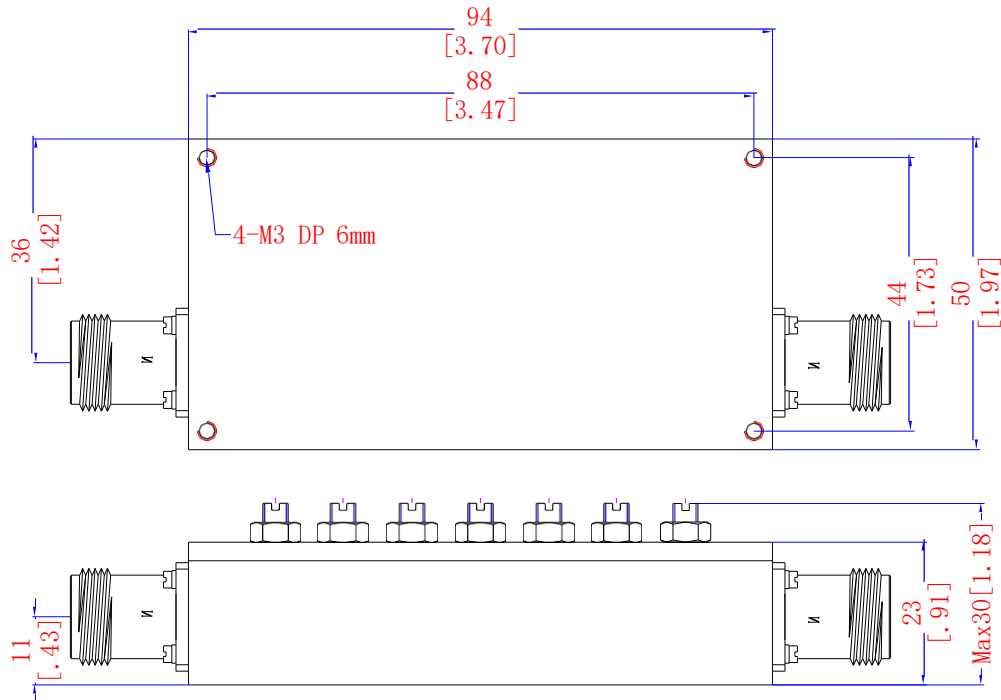
## Mechanical

**Mounting Method:** Threaded Mounting Hole  
**Connector Type:** N Type Female  
**Dimensions With Mounting:** 3.70 x 1.97 x 1.18 in

## Environmental

**Operating Temperature:** -10° C to +50° C  
**Storage Temperature:** -55° C to +95° C  
**Shock:** 20G. 11ms half sine wave, 3 axis  
**Vibration:** 20 G. 5 to 200 Hz

## Outline Drawing:

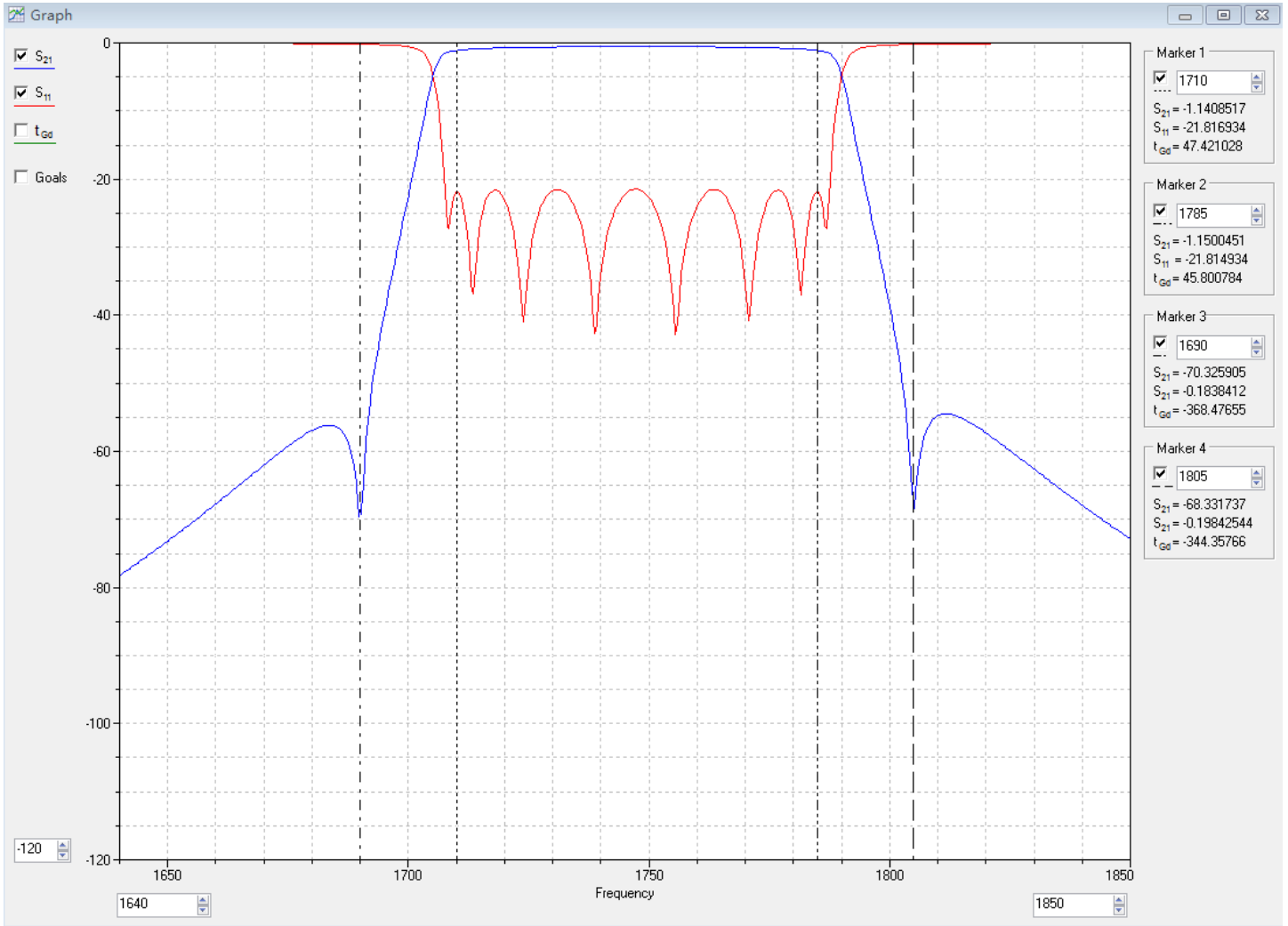


2 decimal places: +/-0.01 inches [+/- 0.3mm]  
3 decimal places: +/- 0.005 inches [+/- 0.13mm]  
Angles: +/- 1 Deg.

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



### Simulation Plot:



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