



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

# 1780 MHz Cavity Band Pass Filter

**Part Number: AE1780B11642**



## Electrical Specifications

**Center Frequency:** 1780 MHz  
**Bandwidth:** 140 MHz  
**Insertion Loss:** 1.0 dB Max.  
**Return Loss:** 15 dB Min.  
**Rejection1:** ≥ 40 dB @ 1680 MHz  
**Rejection2:** ≥ 40 dB @ 1950 MHz  
**Power Handling:** 30 W  
**Impedance:** 50 Ohms

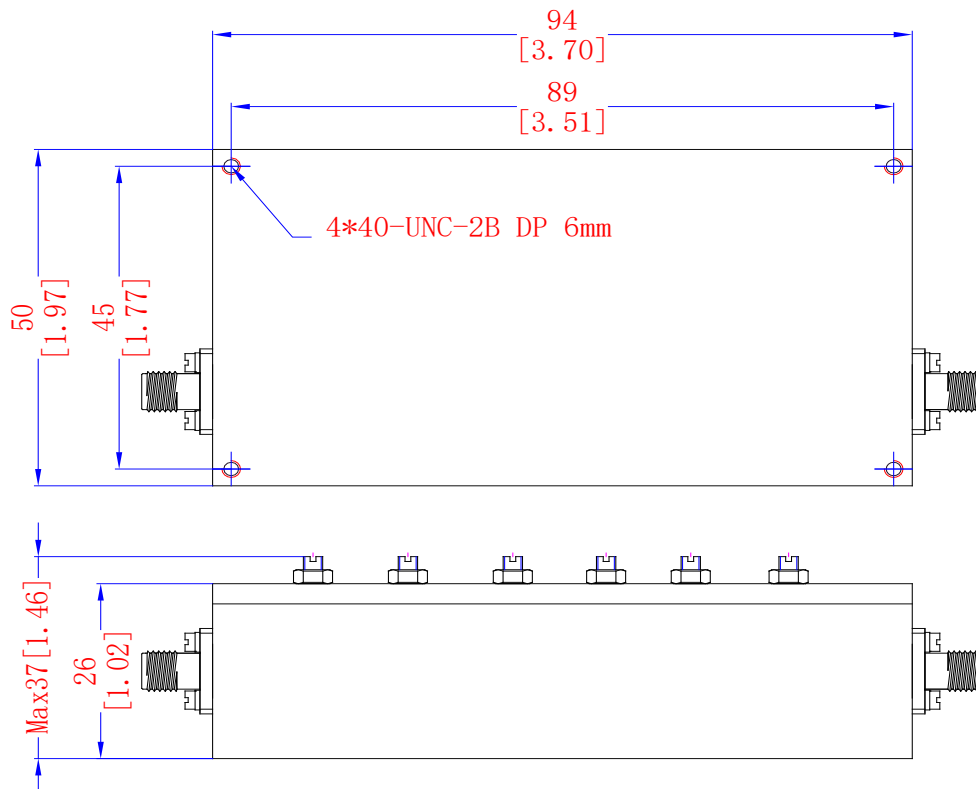
## Mechanical

**Mounting Method:** 4-40 Threaded Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 3.7" X 1.97" x 1.46" .

## Environmental

**Operating Temperature:** -45°C to +85°C  
**Storage Temperature:** -55°C to +95°C  
**Shock:** 20 G. 11ms  
**Vibration:** 20 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.

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## Simulation Plot:

