



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

# 1742.5 MHz Cavity Band Pass Filter

**Part Number: AE1742B11703**



## Electrical Specifications

**Center Frequency (Fc):** 1742.5 MHz  
**3dB Bandwidth (BW):** 5 MHz  
**Passband Frequency (PB):** 1740-1745MHz  
**Insertion Loss @ Fc:** 3.5 dB Max  
**Return Loss in BW :** 14 dB Min.  
**Rejection1:** 30 dB Min. @ 1739 MHz  
**Rejection2:** 30 dB Min. @ 1746 MHz  
**Power Handling:** 10 W Max.  
**Input / output Impedance:** 50 Ohms

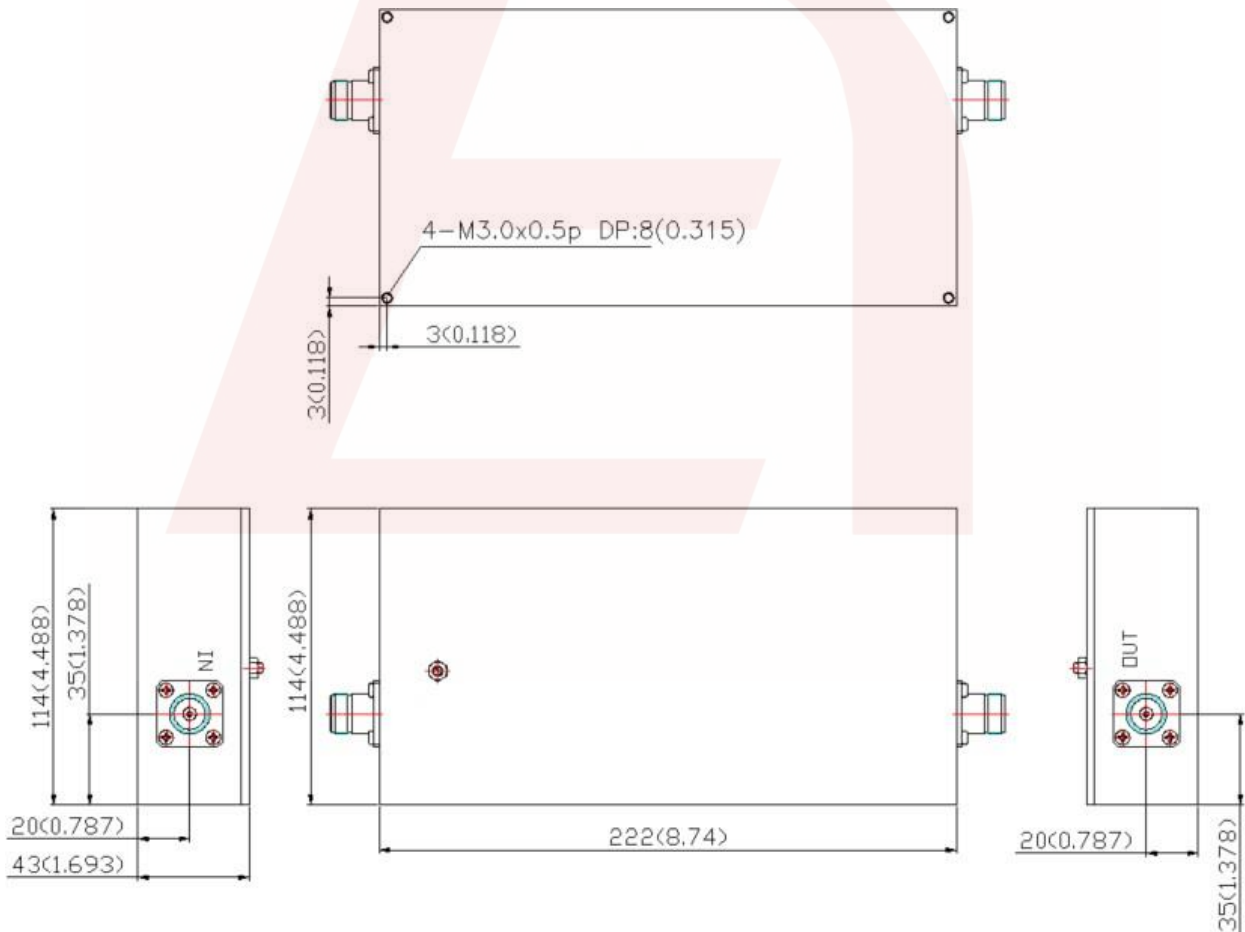
## Mechanical

**Mounting Method:** M3 Threaded Holes  
**Connector Type:** N-Type(F)  
**Dimensions:** 8.74 x 4.48 x 1.69 in.  
**Dimensions :** 222 x 114 x 43 mm.

## Environmental

**Operating Temperature:** -45°C to +75°C  
**Storage Temperature:** -55°C to +85 °C  
**Shock:** 20G. 11ms  
**Vibration:** 20G 0.5 to 200 Hz

## Outline Drawing:



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

Angles: +/- 1 Deg.

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

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