



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

# DC-1730 MHz / 1770-5300 MHz Cavity Notch Filter

**Part Number: AE1750N2247**



## Electrical Specifications

**Notch Center Frequency:** 1750 MHz  
**Notch Frequency range:** 1740-1760 MHz  
**Notch Rejection:**  $\geq 40\text{dB}$   
**Passband low side of Notch:** DC-1730 MHz  
**Passband High side of Notch:** 1770-5300 MHz  
**Insertion loss in Passband:**  $\leq 1.5\text{ dB}$   
**Return Loss in Passband:**  $\geq 14\text{ dB}$   
**Input/output Impedance:** 50 Ohms  
**Power Handling:**  $\leq 25\text{ Watts}$

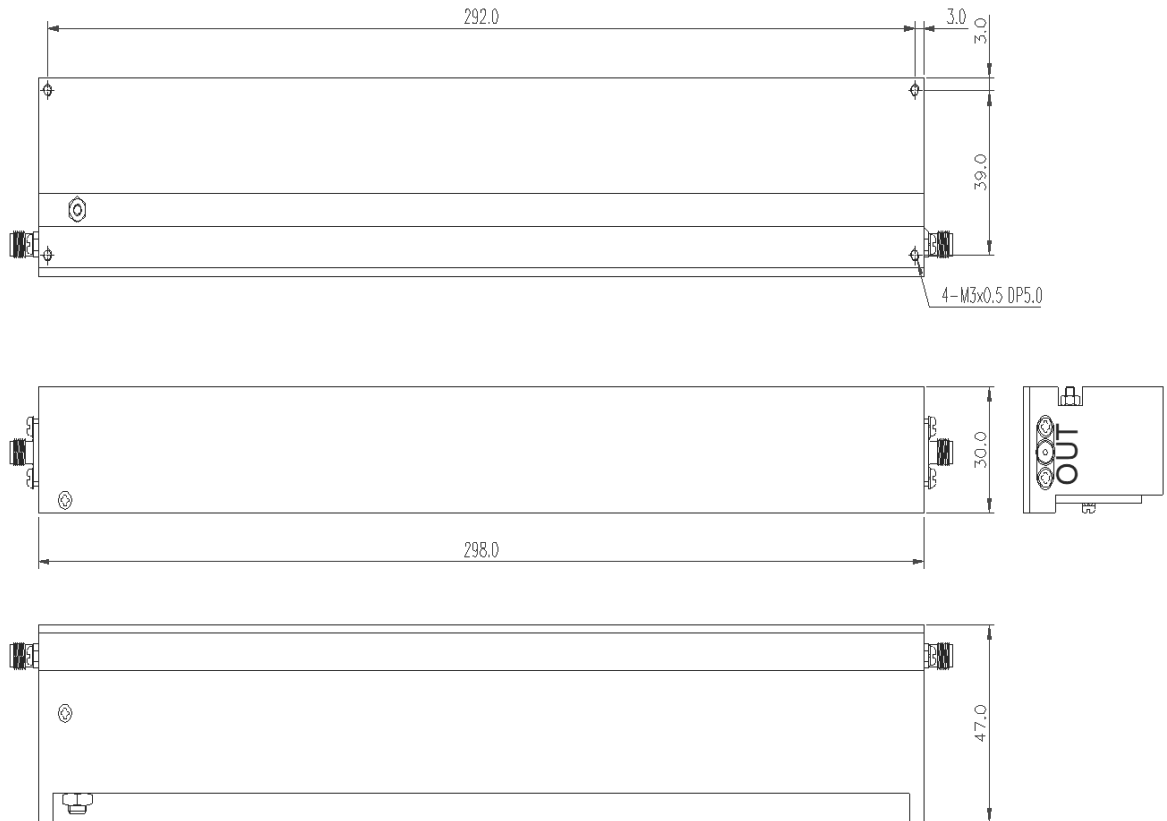
## Mechanical

**Mounting Method:** Threaded Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 298 X 30 X 47 mm.  
**Dimensions:** 11.73 X 1.18 X 1.85 in.

## Environmental

**Operating Temperature:**  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
**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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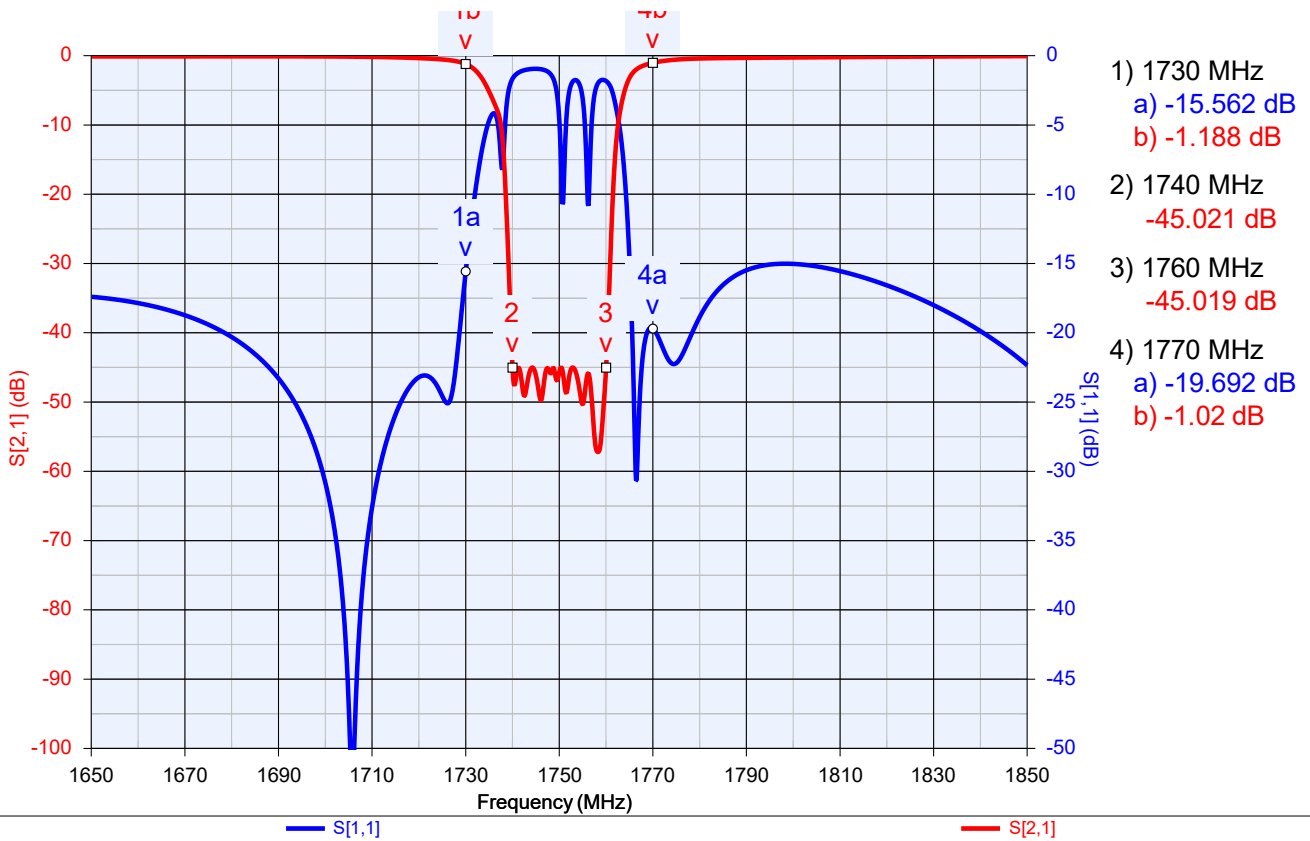
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## Simulation Plot:



Note: This is a simulated response plot. Actual performance might differ.