



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

# 1791 MHz Cavity Bandpass Filter

**Part Number: AE1791B10561**



## Electrical Specifications

**Center Frequency:** 1791.748 MHz  
**Bandwidth:** 16 MHz  
**Passband :** 1783.748 MHz to 1799.748 MHz  
**Return loss:**  $\geq 15$  dB  
**Insertion loss:**  $\leq 2$ dB  
**Impedance:** 50 Ohms  
**Rejection 1:** 6dB Min.@1766.748MHz  
**Rejection 2:** 6dB Min.@ 1816.748 MHz  
**Rejection 3 :** 30dB Min.@1861.748 MHz &  
**Rejection 4:** 30dB Min.@ 1721.748 MHz  
**Rejection 5:** 60dB Min. @2280 MHz  
**Rejection 6:** 60dB Min. @ 1320 MHz  
**Power Handling:** +10 dBm

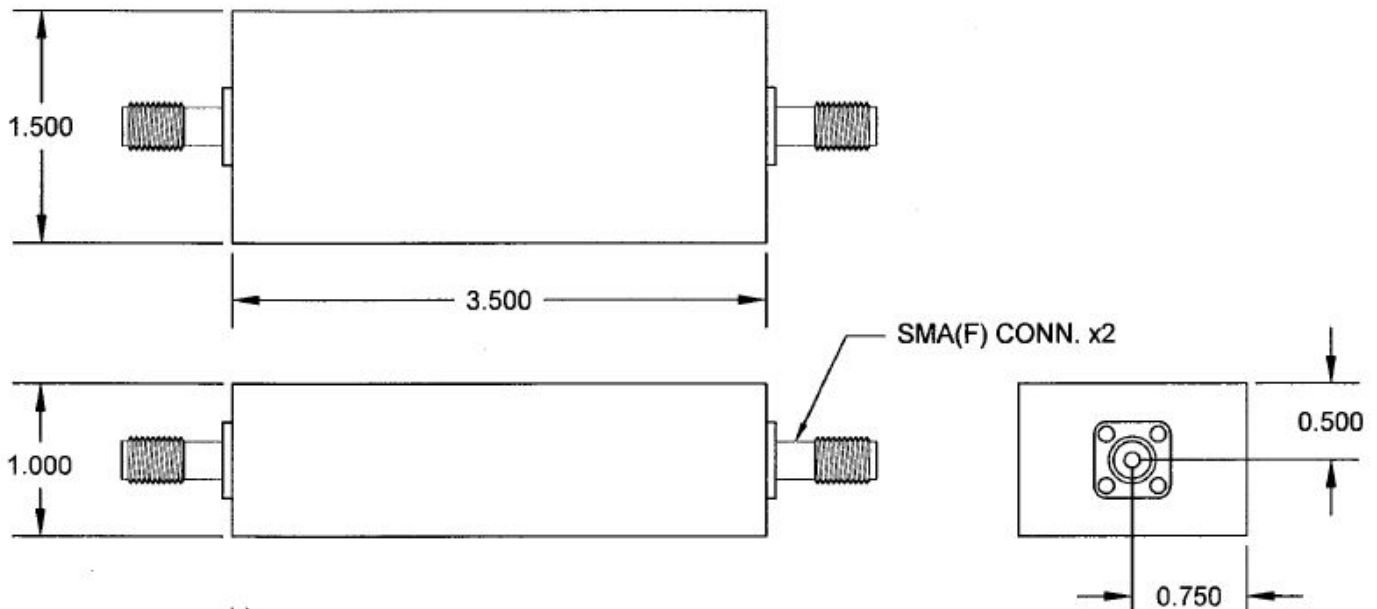
## Mechanical

**Connector Type:** SMA(Female)  
**Dimensions:** 3.5" X 1.5" x 1" in.

## Environmental

**Operating Temperature:** -25°C to +70°C  
**Storage Temperature:** -40°C to +90°C  
**Shock:** 20 G. 11ms  
**Vibration:** 20 G. 5 to 200Hz

## Outline Drawing:



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

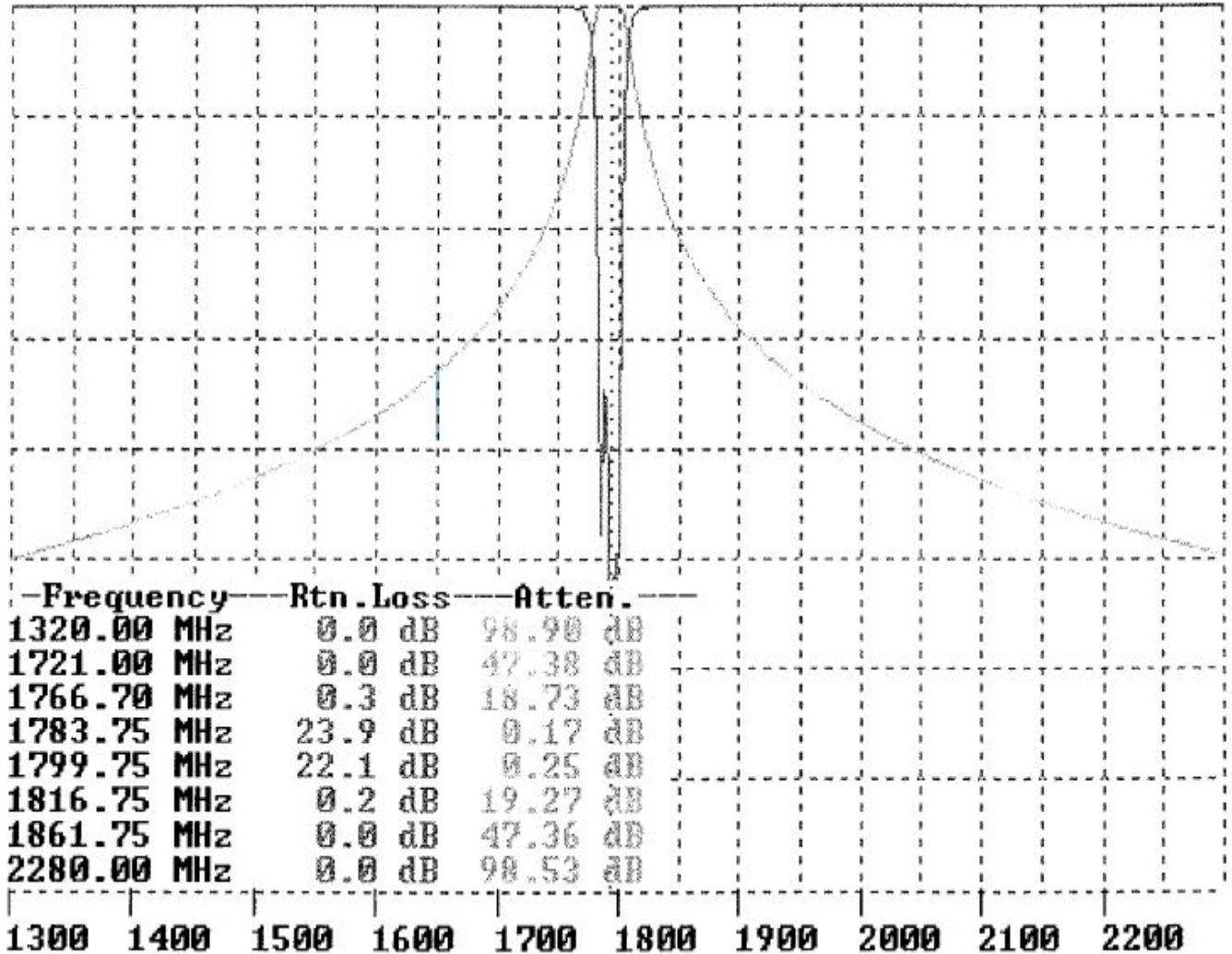
*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.*

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### Simulation Plot:



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