



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

# 1300 MHz LC Bandpass Filter

Part Number: AE1300B10047



## Electrical Specifications

**Center Frequency:** 1300 MHz  
**Bandwidth:** 200 MHz  
**Passband :** 1200 MHz to 1400 MHz  
**Insertion Loss:**  $\leq 1.5\text{dB}$  @ 1300 MHz  
**Return Loss:**  $> 12\text{dB}$  @ 1200 MHz to 1400 MHz  
**Rejection:**  $> 60\text{dB}$  @ 0-1000 MHz  
**Rejection2:**  $> 15\text{dB}$  @ 1170 MHz  
**Rejection3:**  $> 15\text{dB}$  @ 1430 MHz  
**Rejection4:**  $> 50\text{dB}$  @ 1600 MHz to 5000 MHz  
**Impedance:** 50 Ohms

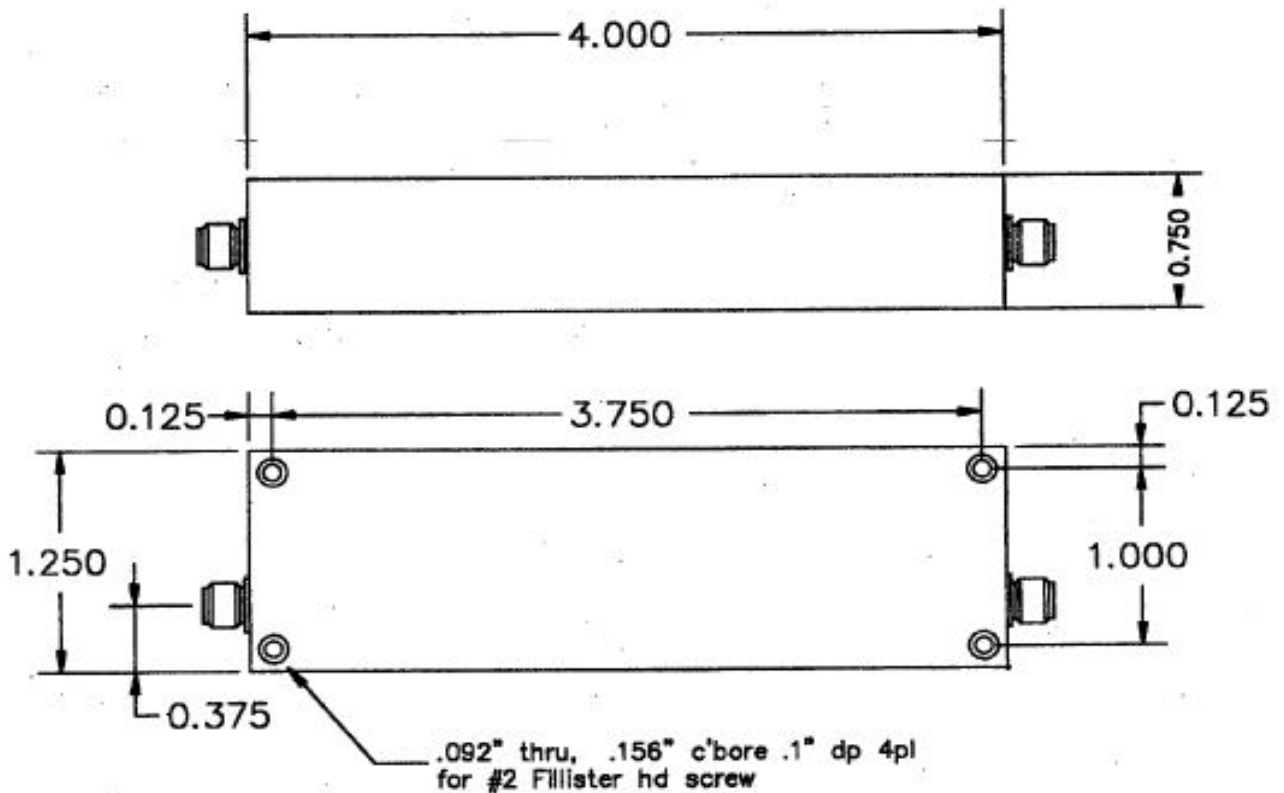
## Mechanical

**Mounting Method:** Through Holes  
**Connector Type:** SMA  
**Dimensions:** 4.0" x 1.25" x 0.75" in.

## Environmental

**Operating Temperature:**  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$   
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

## Outline Drawing:





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## Response Plot:

12 Apr 2008 11:58:07  
 CH1 S<sub>11</sub> log MAG 4 dB/ REF 0 dB 1 -16.186 dB  
 CH2 S<sub>21</sub> log MAG 10 dB/ REF 0 dB 1 -1.2092 dB

