



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

## 500 MHz LC Bandpass Filter

Part Number: AE500B10011



### Electrical Specifications

**Center Frequency:** 500 MHz  
**Bandwidth:** 262 MHz  
**Passband :** 361 MHz to 623 MHz  
**Insertion Loss:**  $\leq 1\text{dB}$  @ 500 MHz  
**Return Loss:**  $>15\text{dB}$  @ 361 MHz to 623 MHz  
**Rejection:**  $>60\text{dB}$  @ 0-100 MHz  
**Rejection2:**  $>15\text{dB}$  @ 342 MHz to 347 MHz  
**Rejection3:**  $>60\text{dB}$  @ 1000 MHz to 5000 MHz  
**Impedance:** 50 Ohms

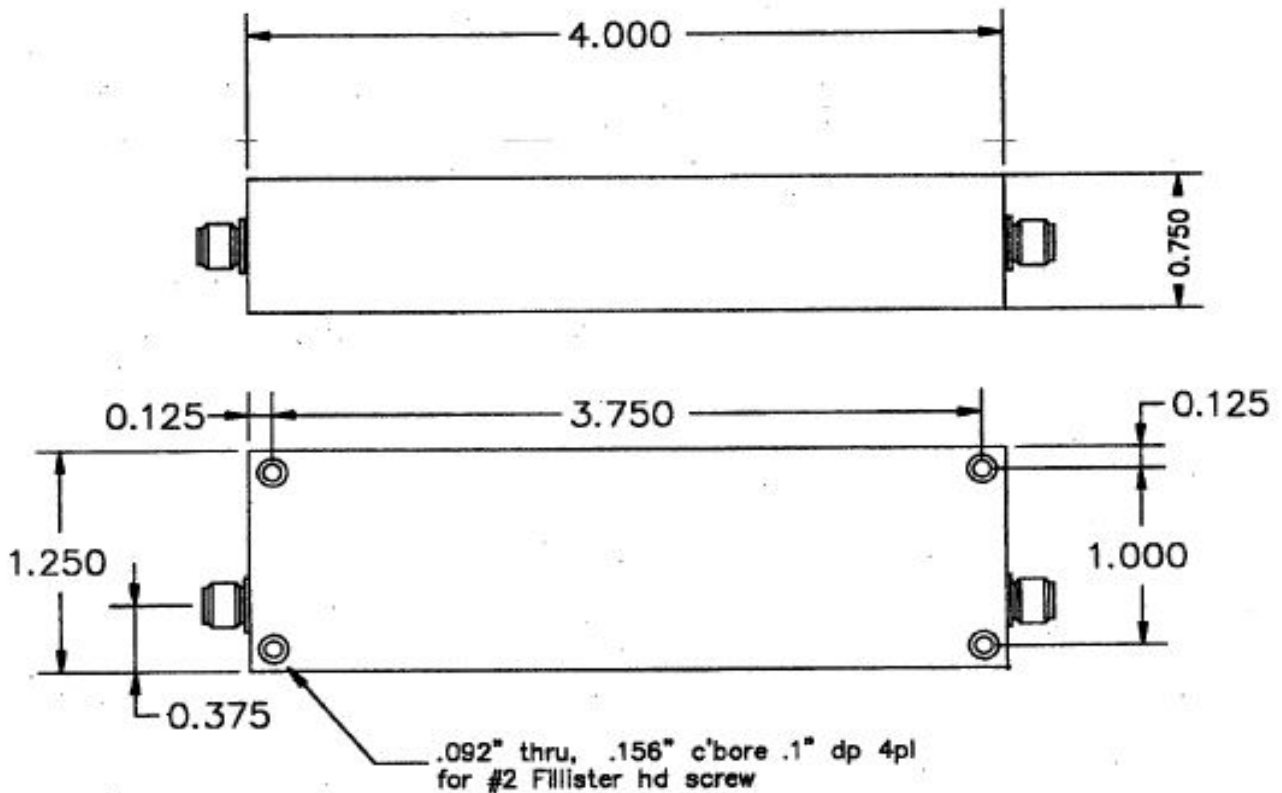
### Mechanical

**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:





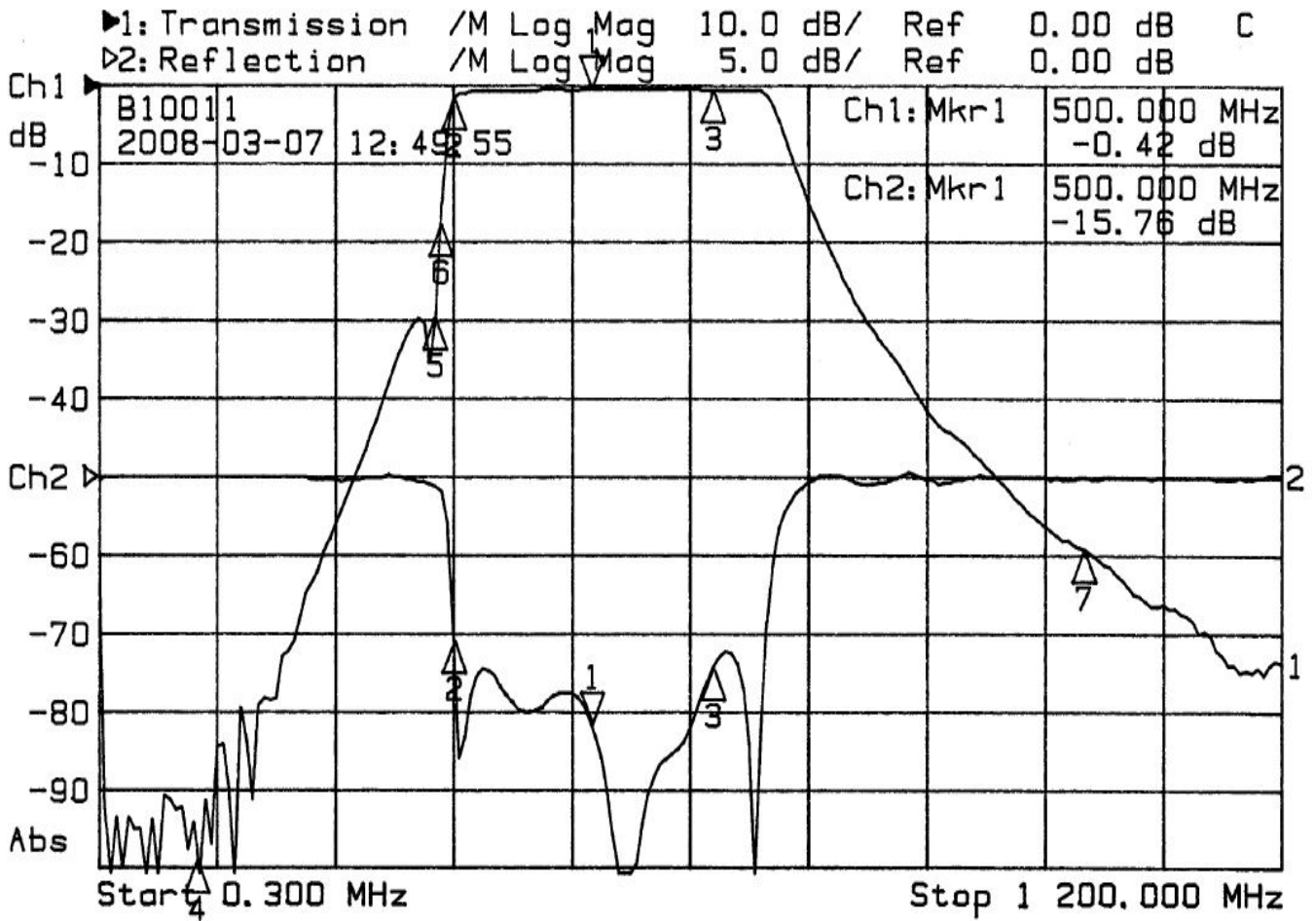
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## Response Plot:



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 500.00	-0.42	1> 500.00	-15.76
2: 361.00	-1.62	2: 361.00	-10.52
3: 623.00	-0.63	3: 623.00	-12.25
4: 100.00	-99.13		
5: 342.00	-29.58		
6: 347.00	-17.89		
7: 1000.00	-59.42		

*[Signature]*

**AE E2**