



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

## 500 MHz LC Bandpass Filter

Part Number: AE500B10230



### Electrical Specifications

**Center Frequency:** 500 MHz  
**Bandwidth:** 500 MHz  
**Passband :** 250 MHz to 750 MHz  
**Insertion Loss:**  $\leq 2.0\text{dB}$  @ 500 MHz  
**Return Loss:**  $>15\text{dB}$  @ 250 MHz to 750 MHz  
**Rejection:**  $>30\text{dB}$  @ 0-175 MHz  
**Rejection2:**  $>30\text{dB}$  @ 825 MHz to 4000 MHz  
**Impedance:** 50 Ohms

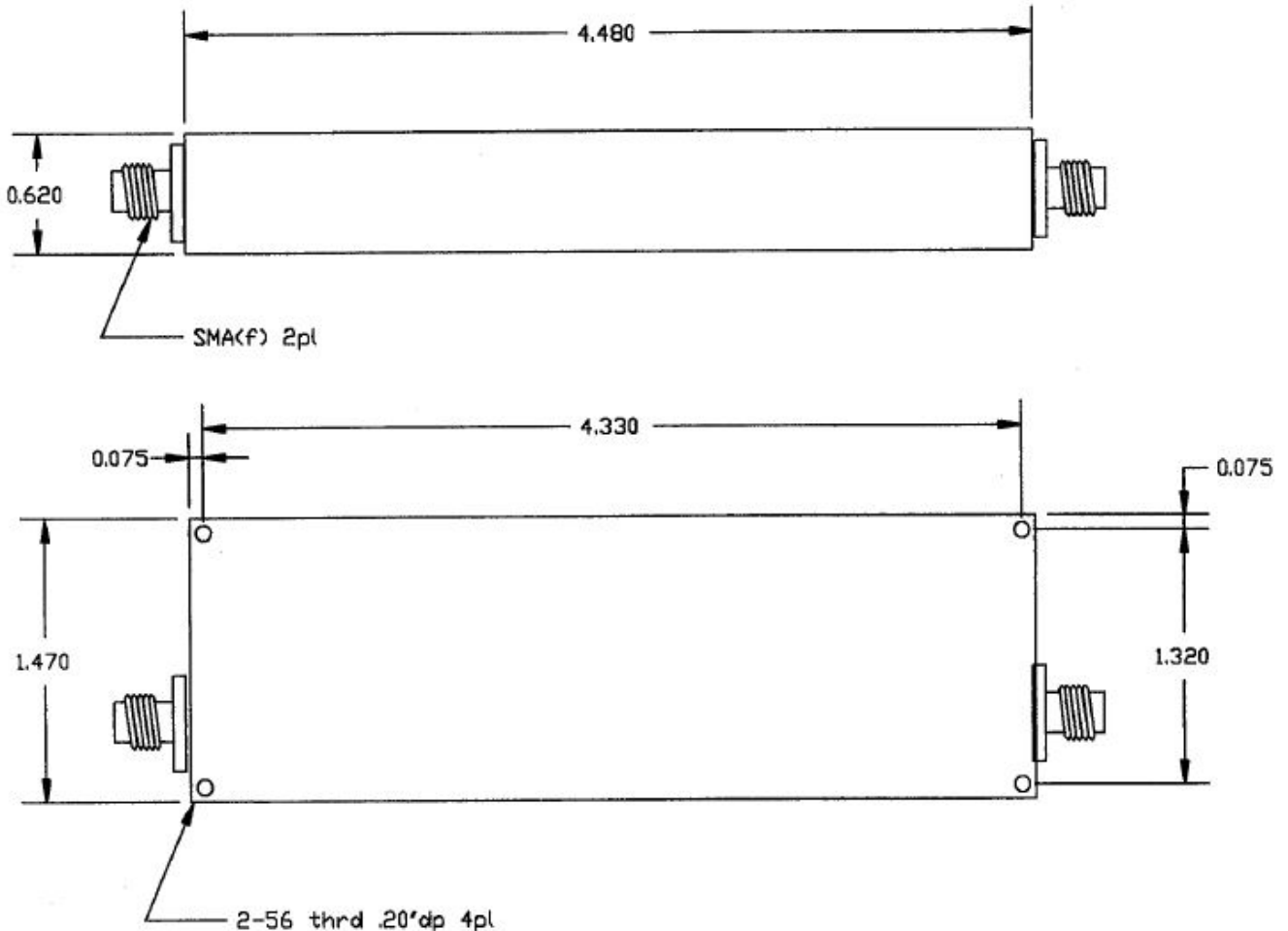
### Mechanical

**Mounting Method:** Threaded Mounting Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 4.480" x 1.470" x 0.620" in.

### Environmental

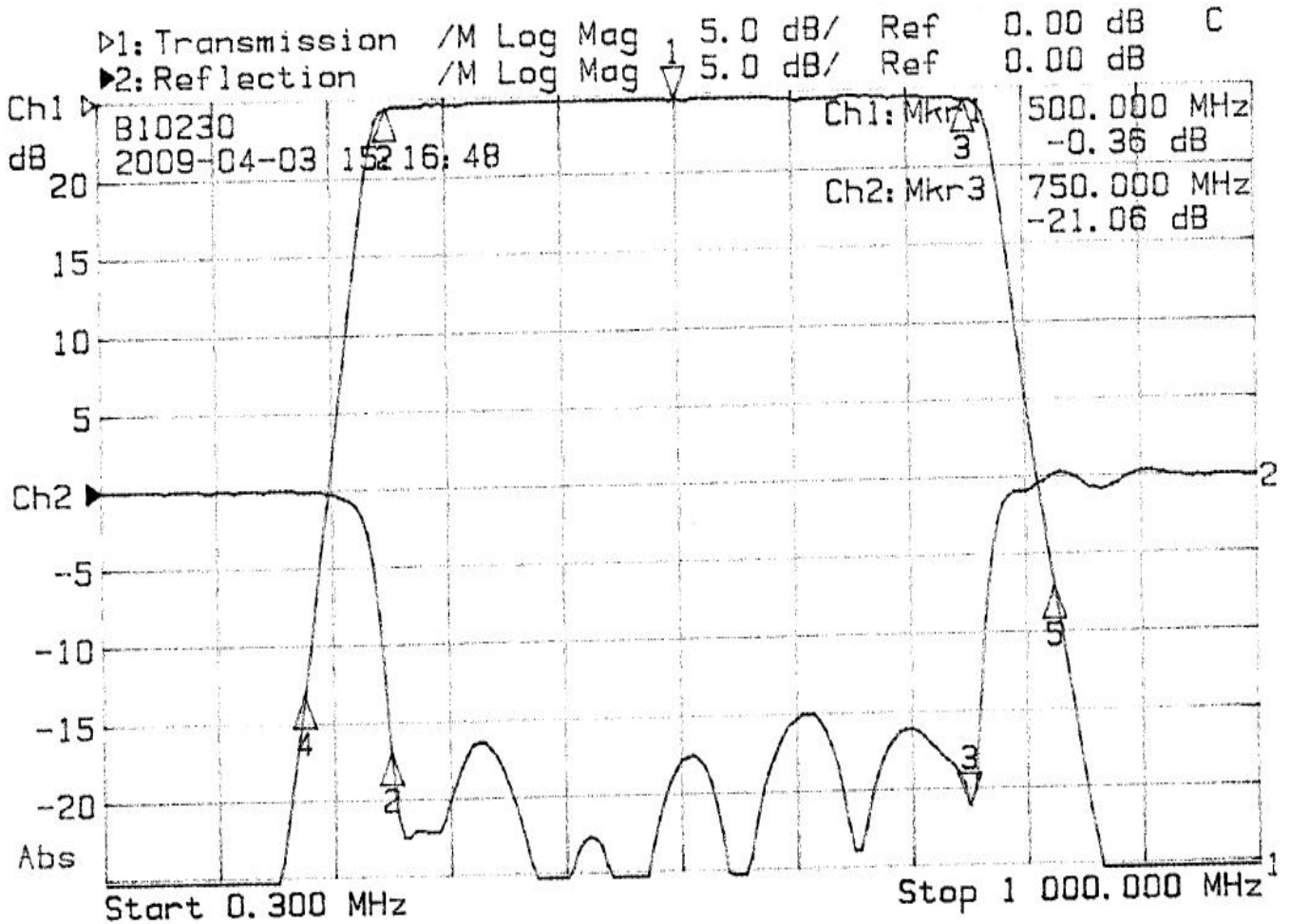
**Operating Temperature:**  $-25^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$   
**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$   
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

### Outline Drawing:





**Response Plot:**



1: Mkr (MHz)	dB	2: Mkr (MHz)	dB
1> 500.00	-0.36	2: 250.00	-17.09
2: 250.00	-0.65	3> 750.00	-21.06
3: 750.00	-0.80		
4: 175.00	-38.28		
5: 825.00	-32.25		

*Ken Jones*