



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

# 450 MHz Cavity Bandpass Filter

**Part Number: AE450B10322**



## Electrical specifications

**Center Frequency:** 450 MHz

**Passband:** 445-455 MHz

**Insertion loss:** 1.5 dB Max.

**Return loss:** 15 dB Min.

**Rejection 1:** 40 dB Min. @0-225 MHz

**Rejection 2:** 40 dB Min. @900-2500 MHz

## Mechanical

**Mounting Method:** Threaded Mounting Holes

**Connector Type:** SMA Female

**Dimensions:** 1.50" x 0.75" x 0.50" in

## Environmental

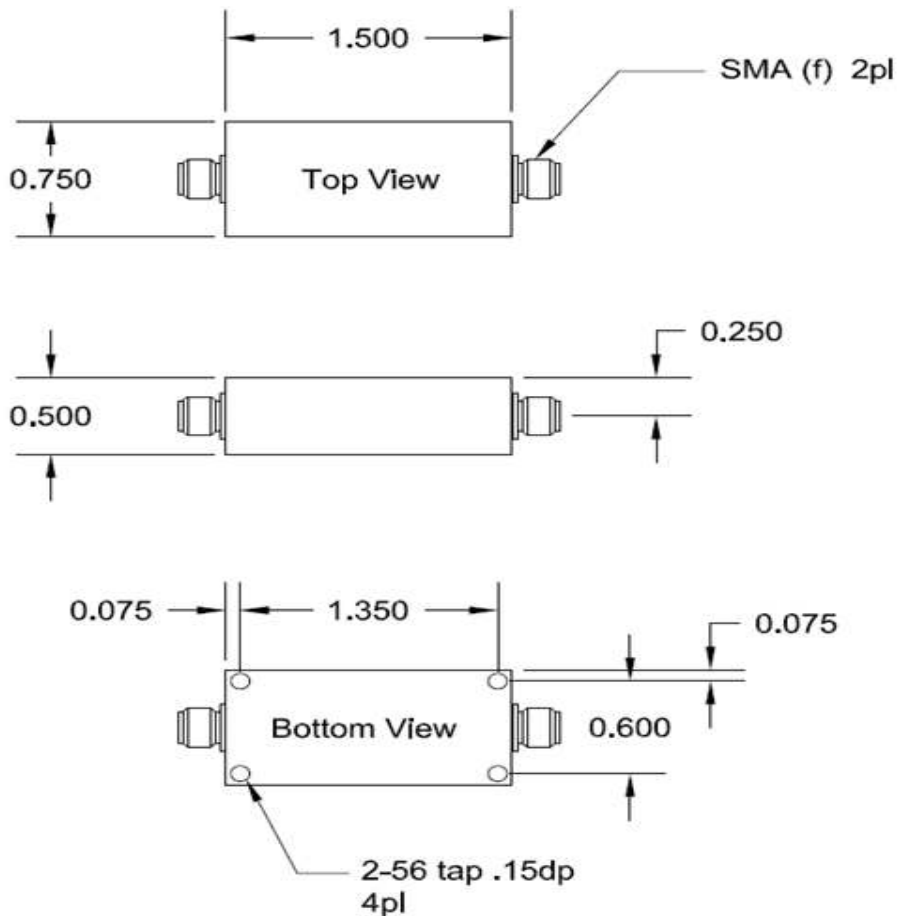
**Operating Temperature:** -45 to +85° C

**Storage Temperature:** -55 to +95° C

**Shock:** 20 G. 11ms

**Vibration:** 20 G. 5 to 200 Hz

## Outline Drawing:



Reference DCR: D050819-01A

Tolerance:  $\pm 0.01$  in.  
Tolerance:  $\pm 0.005$  in.



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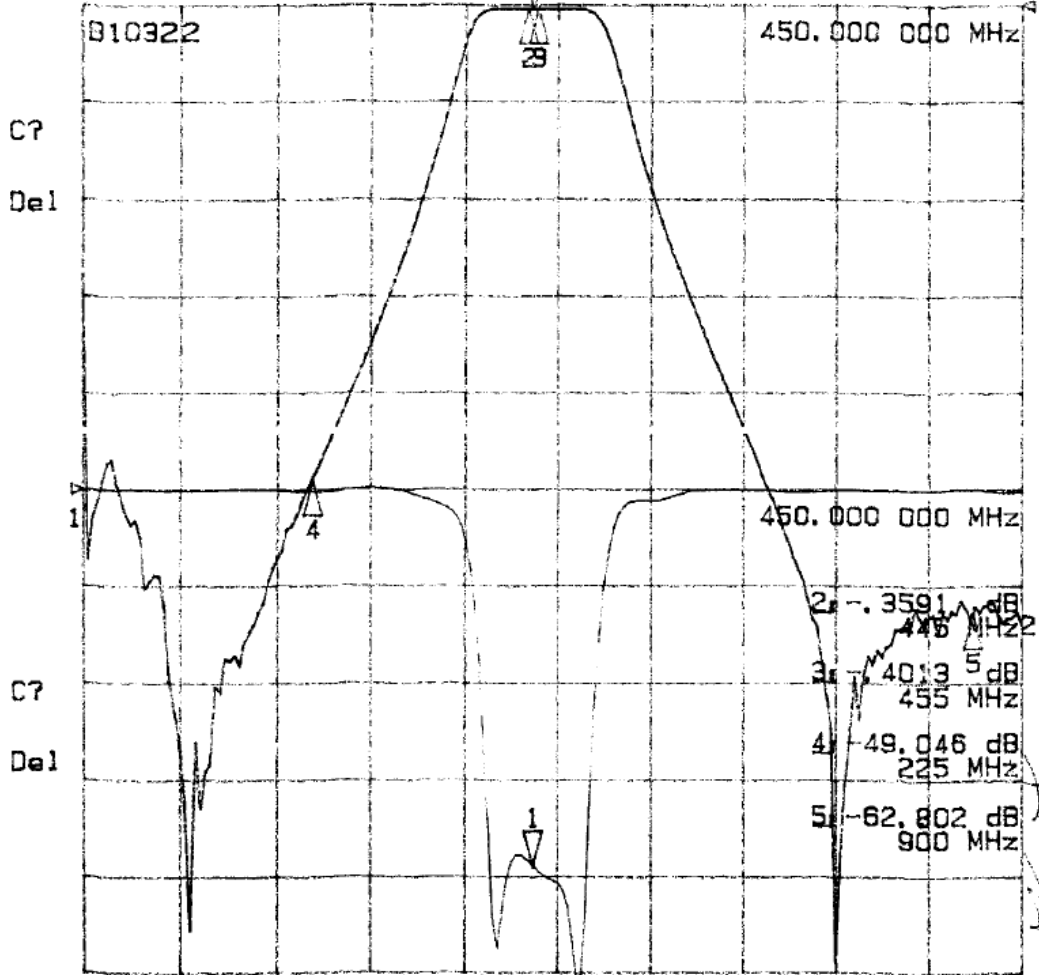
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### Response Plot:

15 Oct 2009 16:38:01  
 CH1 S<sub>11</sub> log MAG 5 dB/ REF 0 dB 1 -19.437 dB  
 CH2 S<sub>21</sub> log MAG 10 dB/ REF 0 dB 1 -1.3831 dB



START .010 000 MHz

STOP 950.000 000 MHz