



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

# 512 MHz Cavity Bandpass Filter

Part Number: AE512B10351



## Electrical specifications

**Center Frequency:** 512 MHz  
**Bandwidth:** 24 MHz  
**Passband:** 500 MHz to 524 MHz  
**Insertion Loss:** <1 dB @ 500 MHz to 524 MHz  
**Return Loss:** >14 dB @ 500 MHz to 524 MHz  
**Rejection:** >50 dB @ 554MHz to 1000 MHz  
**Input / Output Impedance:** 50 Ohms

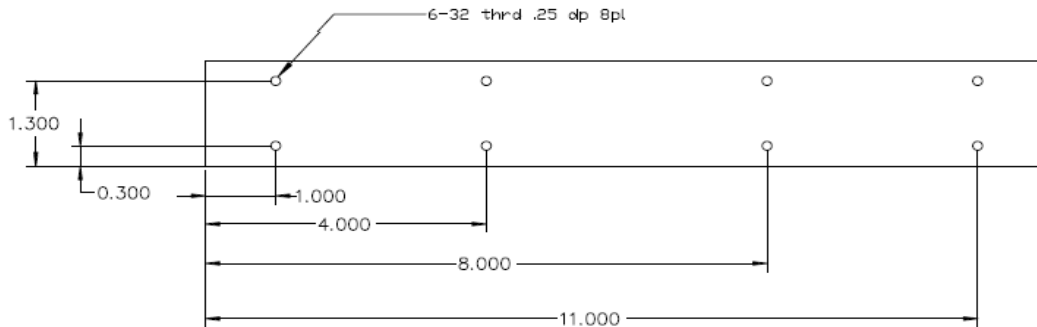
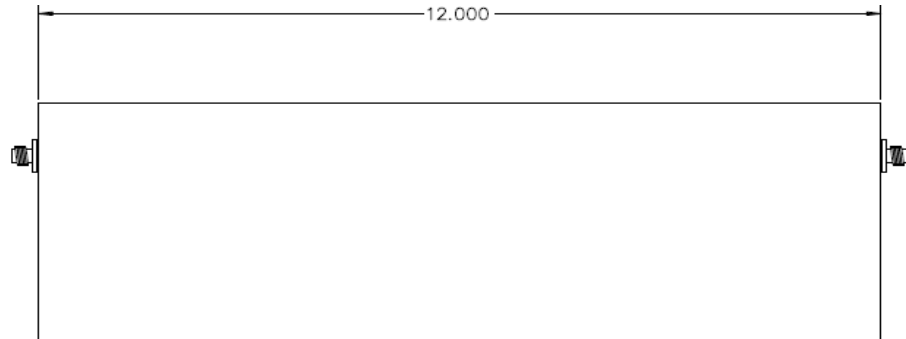
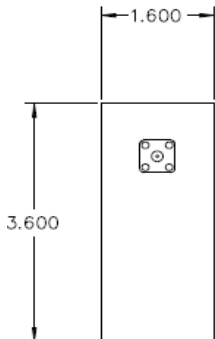
## Mechanical

**Mounting Method:** Threaded Mounting Holes  
**Connector Type:** SMA (F)  
**Dimensions:** 12" x 3.6" x 1.6" in.

## Environmental

**Operating Temperature:** -45 to +85 deg.C  
**Storage Temperature:** -55 to +95 deg.C  
**Shock:** 20 G. 11ms  
**Vibration:** 20 G. 5 to 200Hz

## Outline Drawing:





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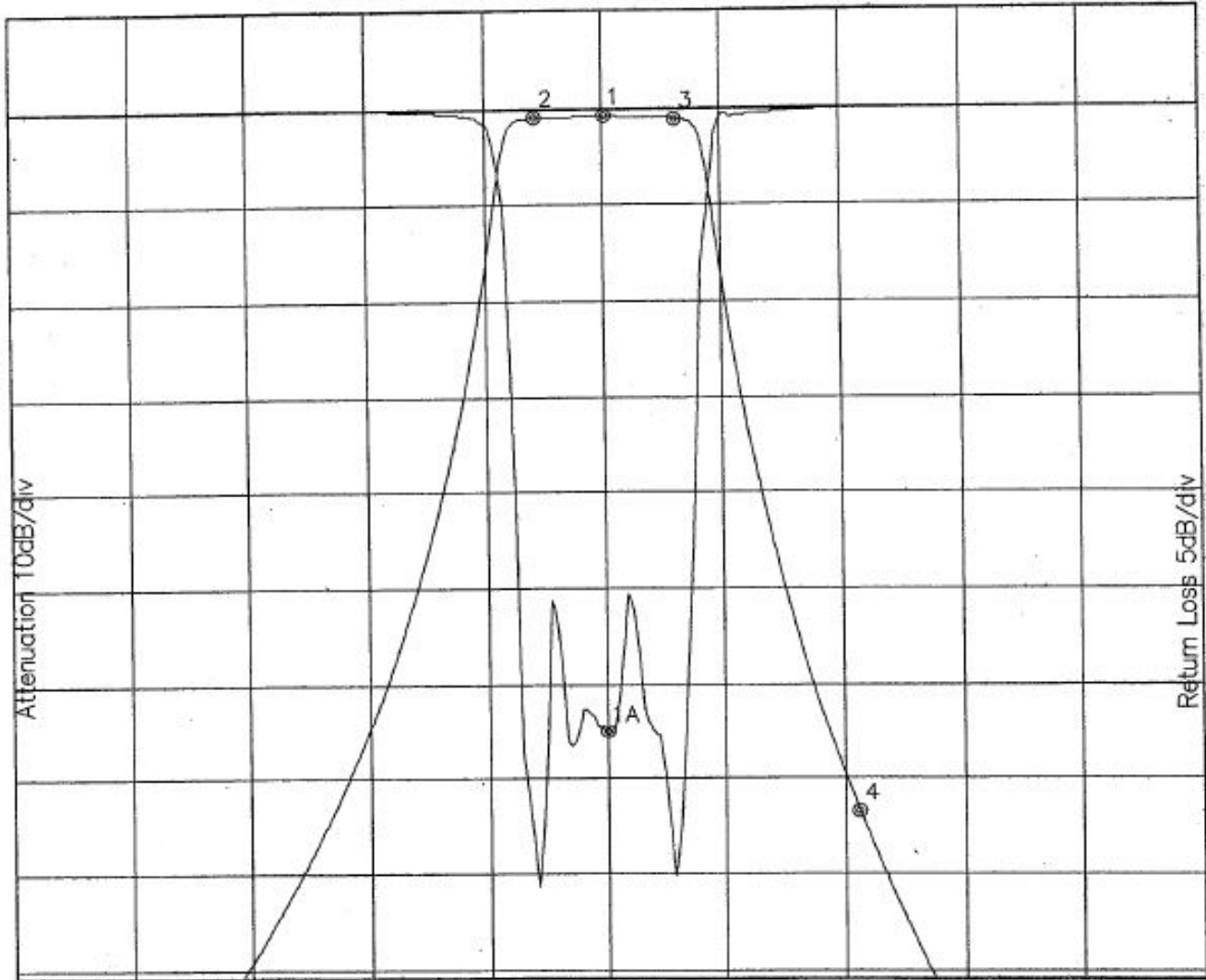


## Response Plot:

A4038.lad

JUN 12, 2009

Attenuation/Return Loss



Attenuation Start: 412.0MHz Stop: 612.0MHz

Return Loss Start: 412.0MHz Stop: 612.0MHz

Marker 1 Freq 512.16MHz Atten -0.743dB  
 Marker 2 Freq 500.20MHz Atten -0.917dB  
 Marker 3 Freq 524.11MHz Atten -1.016dB  
 Marker 4 Freq 554.16MHz Atten -73.384dB

Marker 1A Freq 511.83MHz Ret Loss -32.507dB