



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

# 12400 MHz Bandpass Filter

Part Number: AE12400B8702



## Electrical Specifications

**Center Frequency:** 12.4 GHz  
**0.5-dB Bandwidth:** >11 GHz to 14 GHz  
**Impedance:** 50 Ohms  
**Insertion Loss:**  $\leq 1.5$  dB  
**Rejection :**  $\geq 90$  dB @ 1 GHz to 4 GHz  
**Rejection2 :**  $\geq 60$  dB @ 5 GHz  
**Rejection3 :**  $\geq 50$  dB @ 6 GHz  
**Rejection3 :**  $\geq 30$  dB @ 9 GHz  
**VSWR:** <1.5:1

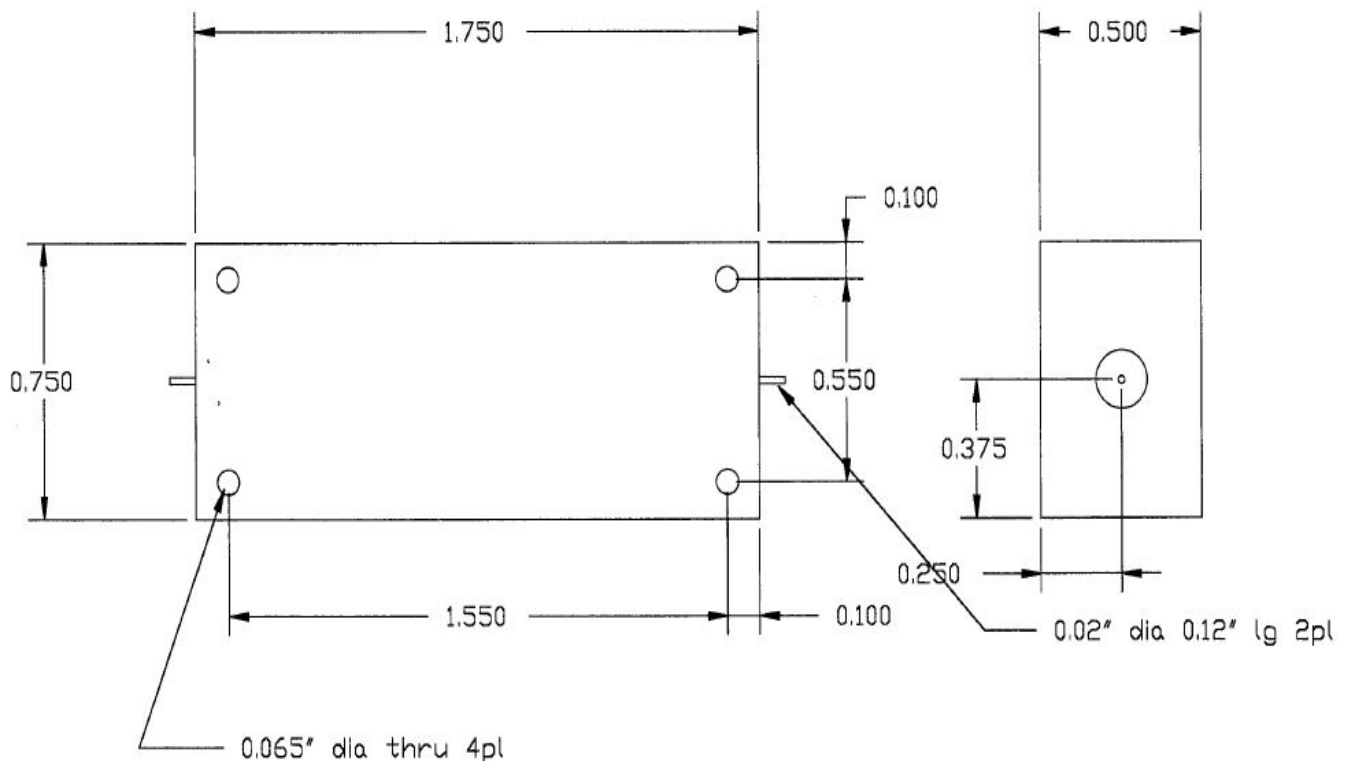
## Mechanical

**Mounting Method:** Through Holes  
**Connector Type:** Surface Mount  
**Dimensions:** 1.75" X 0.75" x 0.5" in.

## Environmental

**Operating Temperature:** -40°C to +70°C  
**Storage Temperature:** -25°C to +90°C  
**Shock:** 10 G. 11ms  
**Vibration:** 10 G. 5 to 200Hz

## Outline Drawing:





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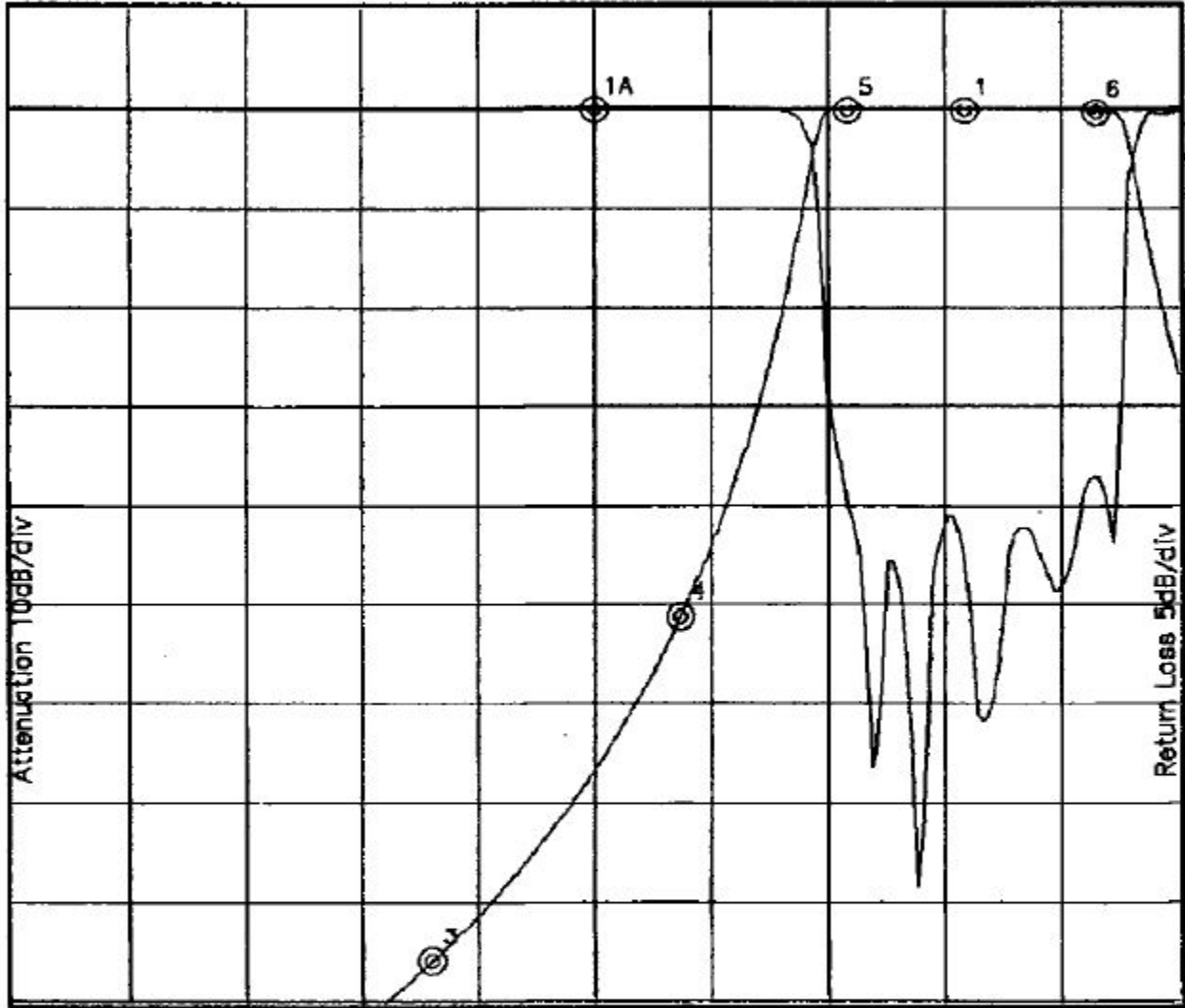


## Response Plot:

### ANATECH ELECTRONICS 11-14GHz BPF P/N B8702

JAN 14, 2004

Attenuation/Return Loss



Attenuation Start: 1000.0MHz Stop: 15.0GHz

Return Loss Start: 1000.0MHz Stop: 15.0GHz

- Marker 1 Freq 12.422GHz Atten -0.214dB
- Marker 2 Freq 4.008GHz Atten -99.497dB
- Marker 3 Freq 6.021GHz Atten -88.506dB
- Marker 4 Freq 9.006GHz Atten -51.800dB
- Marker 5 Freq 11.019GHz Atten 0.297dB
- Marker 6 Freq 14.005GHz Atten -0.358dB

Marker 1A Freq 7.989GHz Ret Loss 0.000dB