



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

# 55 MHz LC Bandpass Filter

**Part Number: AE55B5306**



## Electrical Specifications

**Center Frequency:** 55 MHz  
**3dB Bandwidth:** >3 MHz  
**Insertion Loss:** <6.0dB  
**Return Loss:** >14.0dB  
**Ripple:** <0.1dB  
**Rejection:** ≥45dB @ 50 MHz & 60 MHz  
**Rejection2:** ≥60dB @ 45 MHz  
**Rejection3:** ≥60dB @ 65 MHz to 350 MHz  
**Impedance:** 50 Ohms

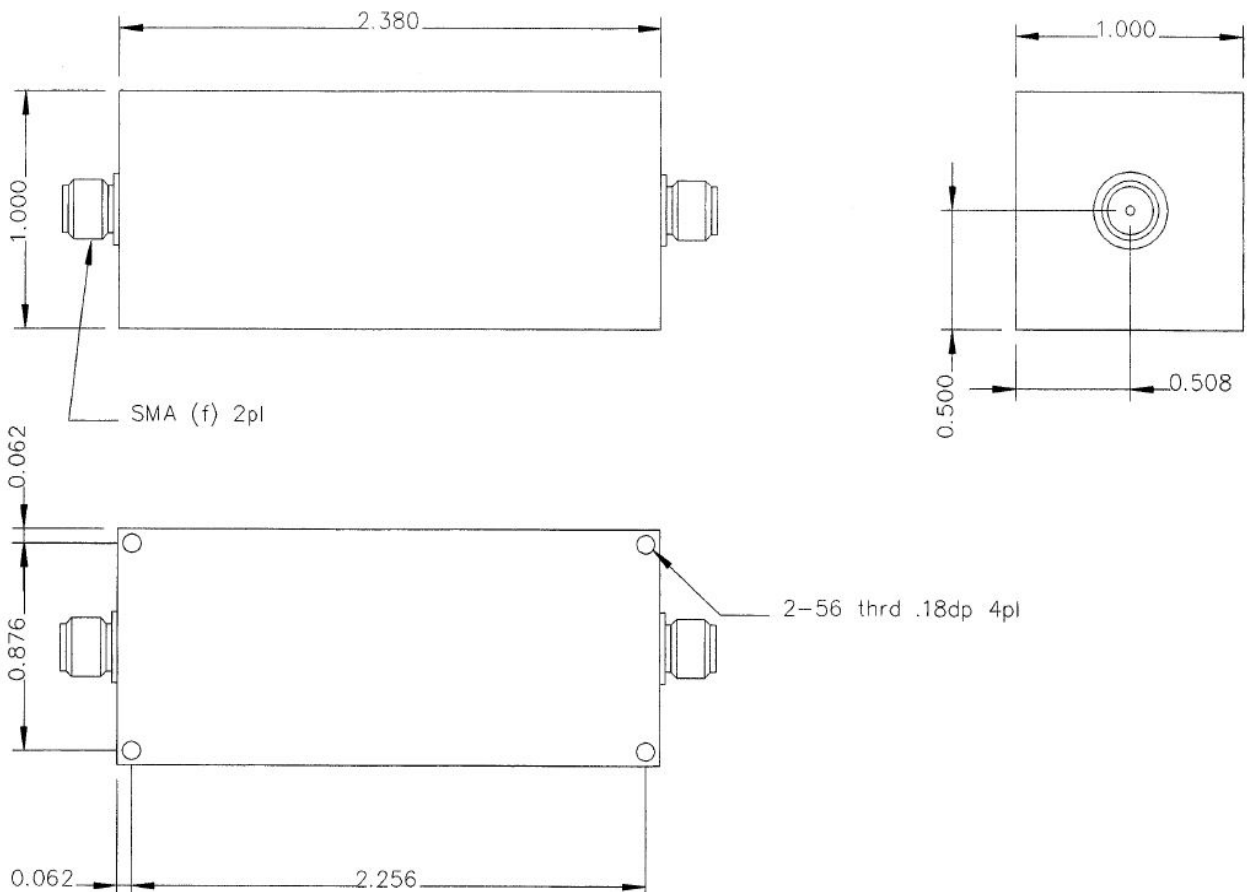
## Mechanical

**Mounting Method:** Threaded Mounting Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 2.380" x 1.0" x 1.0" in.

## Environmental

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

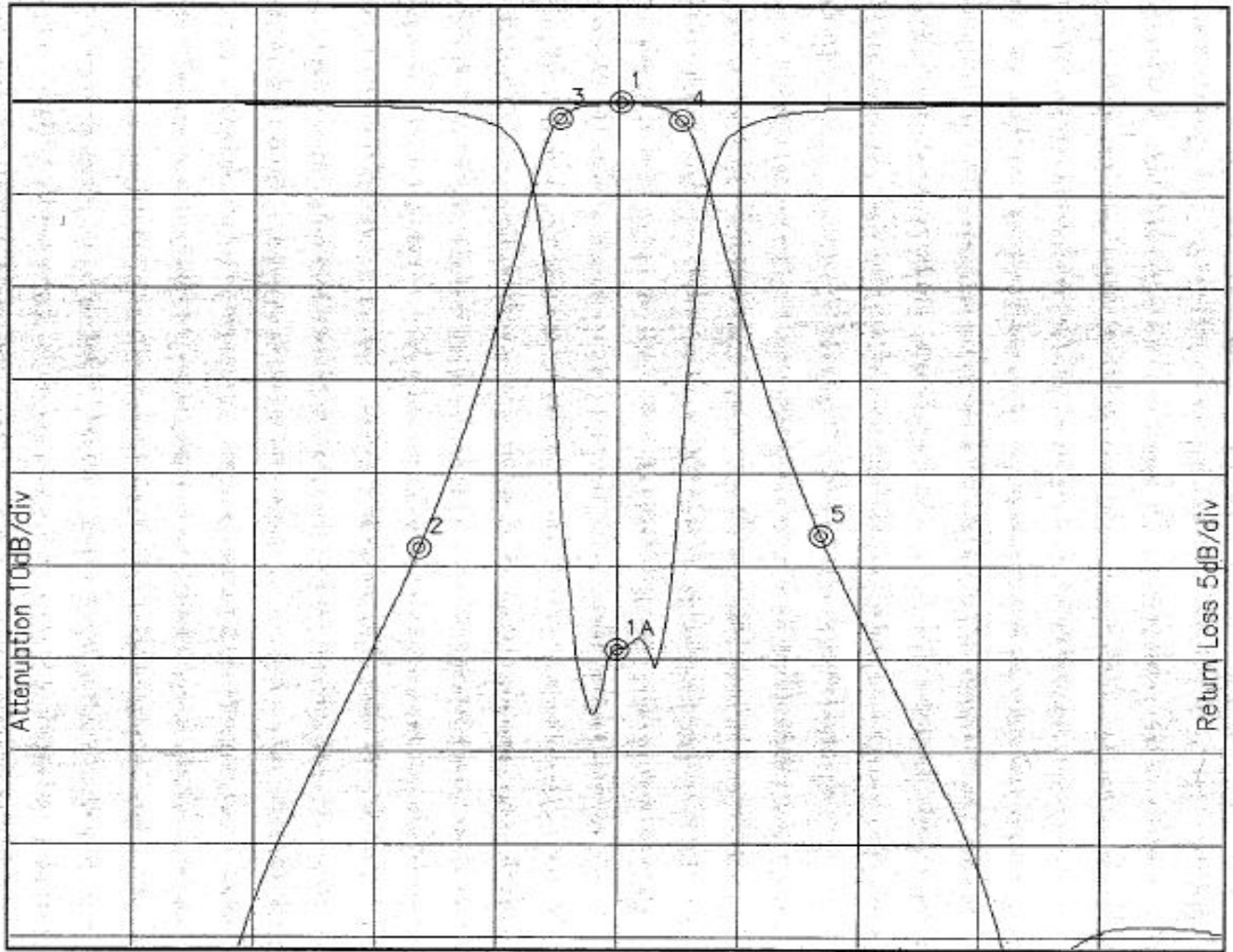
## Outline Drawing:





### Response Plot:

B5306.lad      NOV 8, 1999      Attenuation/Return Loss



Attenuation Start: 40.0MHz    Stop: 70.0MHz      Return Loss Start: 40.0MHz    Stop: 70.0MHz

Offset -3.913dB

- Marker 1 Freq 55.024MHz Atten -0.001dB
- Marker 2 Freq 50.032MHz Atten -47.919dB
- Marker 3 Freq 53.522MHz Atten -1.712dB
- Marker 4 Freq 56.527MHz Atten -1.882dB
- Marker 5 Freq 60.016MHz Atten -46.600dB

Marker 1A Freq 54.976MHz Ret Loss -29.310dB