



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

# 1414 MHz LC Band Pass Filter

**Part Number: AE1414B5461**



## Electrical Specifications

**Center Frequency:** 1414 MHz  
**3dB Passband:** 1188-1684 MHz  
**Insertion Loss:** 4.0dB Max.  
**Return Loss:** 15.0dB Min.  
**Rejection1:** 40dB Min. @ 1004 MHz  
**Rejection2:** 40dB Min. @ 1992 MHz  
**Impedance:** 50 Ohms

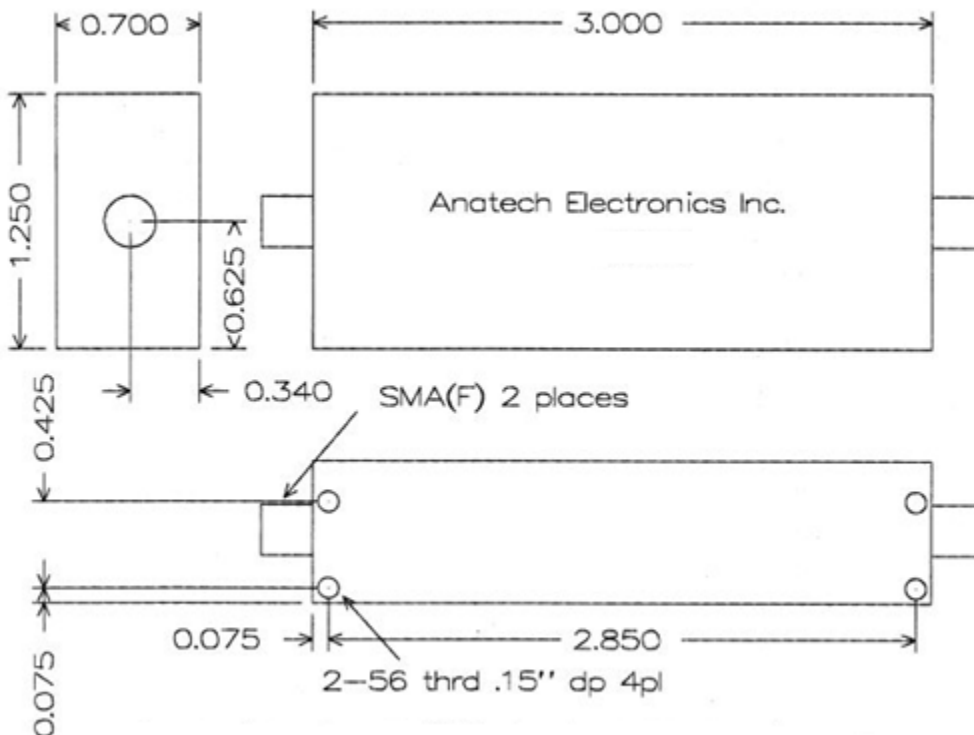
## Mechanical

**Mounting Method:** Threaded Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 3.0" X 1.25" x 0.7"

## 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:



2 decimal places: +/-0.01 inches [+/- 0.3mm]

3 decimal places: +/- 0.005 inches [+/- 0.13mm]

Angles: +/- 1 Deg.

*When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.*

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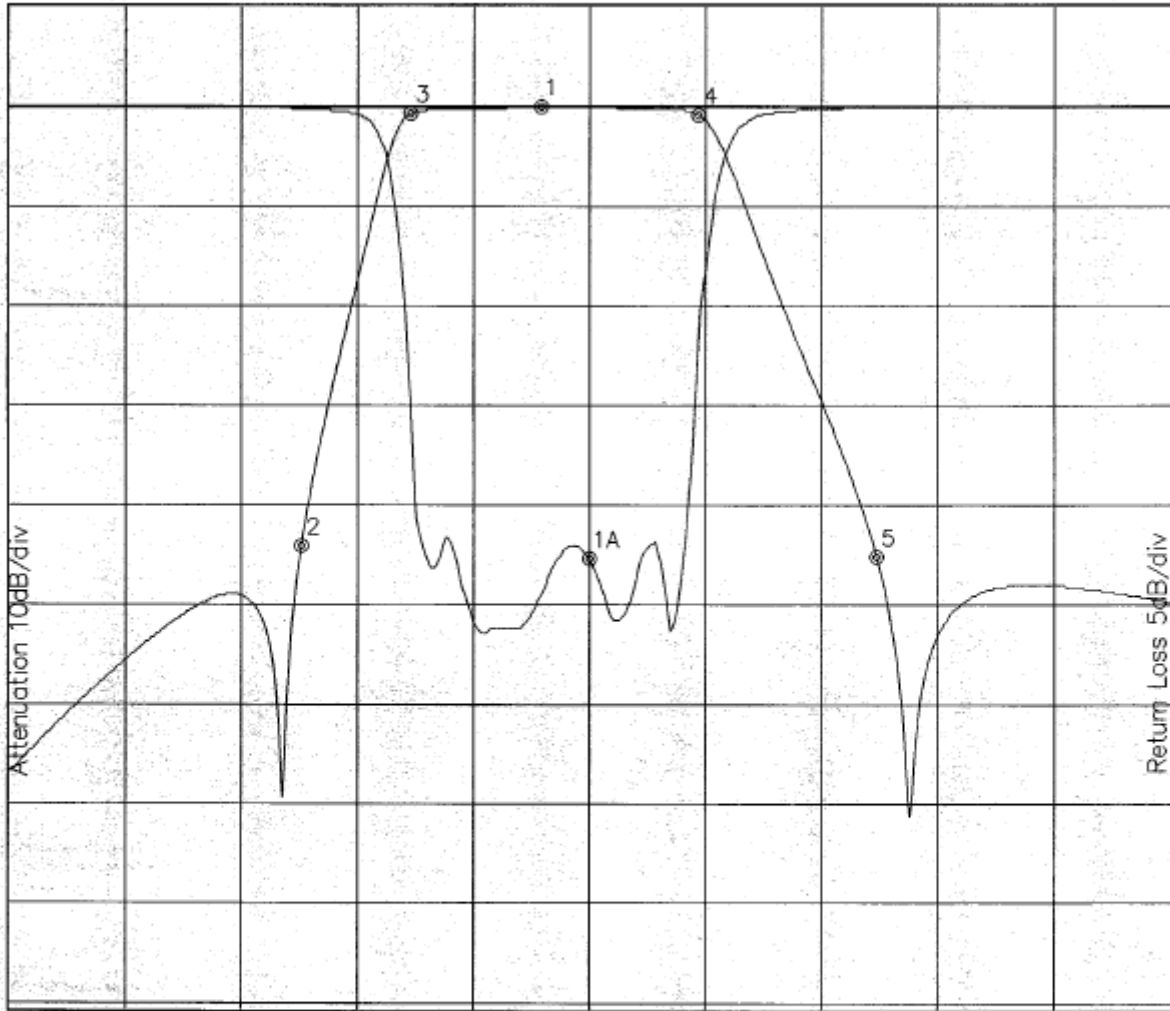


### Simulation Plot:

B5461A.Jad

OCT 11, 2000

Attenuation/Return Loss



Attenuation Start: 500.0MHz Stop: 2.50GHz

Return Loss Start: 500.0MHz Stop: 2.50GHz

Offset -0.2173dB

- Marker 1 Freq 1.414GHz Atten -0.098dB
- Marker 2 Freq 1.001GHz Atten -44.044dB
- Marker 3 Freq 1.188GHz Atten -0.698dB
- Marker 4 Freq 1.686GHz Atten -0.785dB
- Marker 5 Freq 1.993GHz Atten -45.121dB

Marker 1A Freq 1.498GHz Ret Loss -22.770dB

Note: This is a simulated response plot. Actual performance might differ.