



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

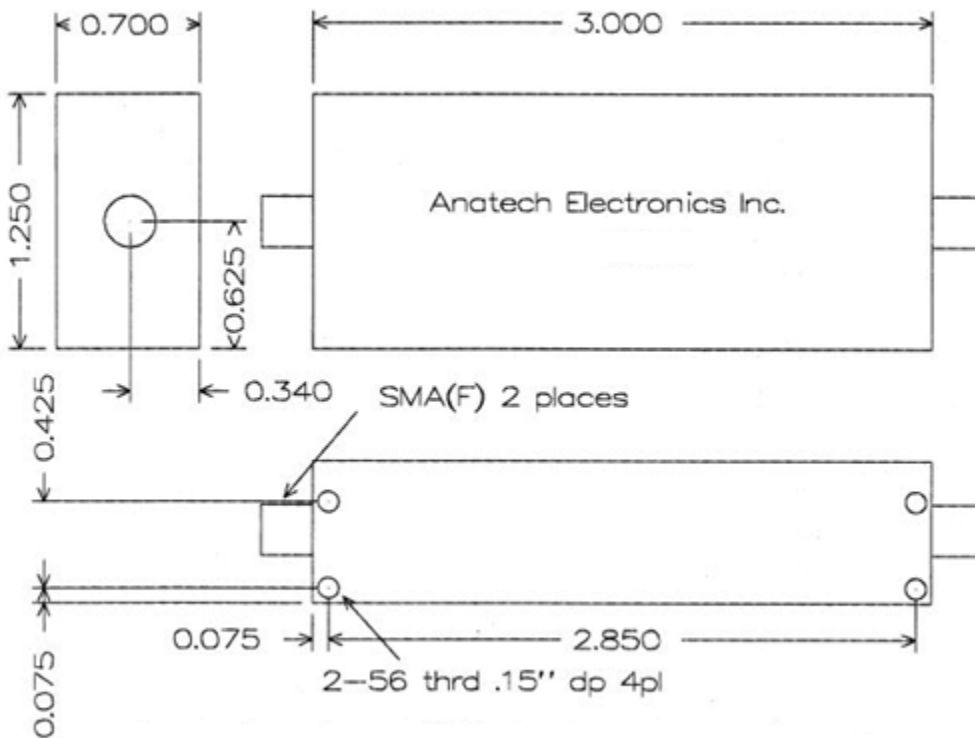
Mechanical

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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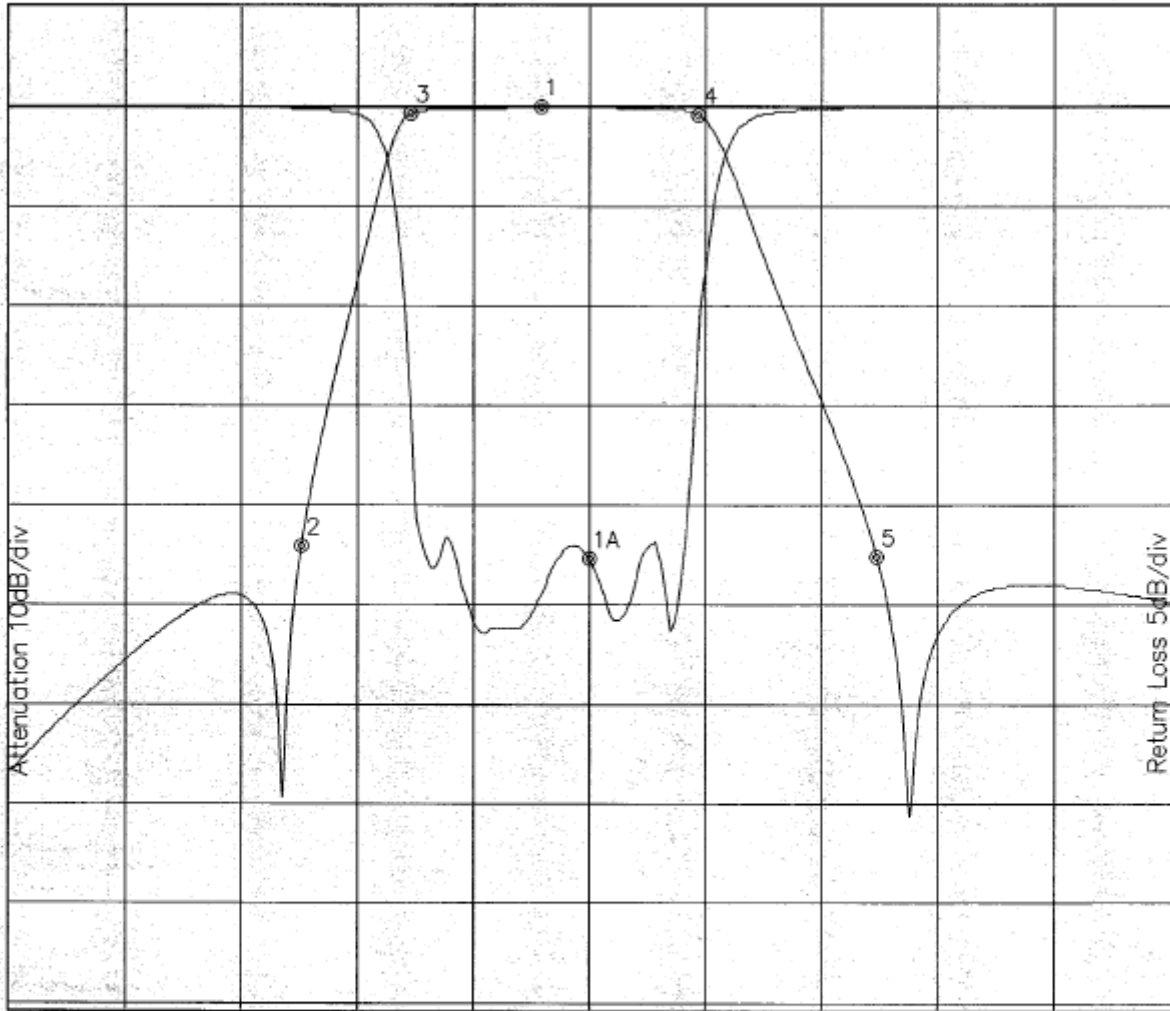


Simulation Plot:

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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.