



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

15.89 GHz Cavity Bandpass Filter

Part Number: AE15890B6953



Electrical Specifications

Center Frequency: 15890 MHz
0.5dB Bandwidth: 4000 MHz
Passband: 14000 MHz to 18000 MHz
Impedance: 50 Ohms
Insertion loss: <1.5 dB
Return loss: >14 dB
Rejection1: >20dB @ 13000 MHz
Rejection2: >30dB @ 2500 MHz
Rejection3: >40dB @ 9000 MHz
Rejection4: >90dB @ 4000MHz to 8000 MHz
VSWR: <1.5:1
Power Handling: 20 dBm

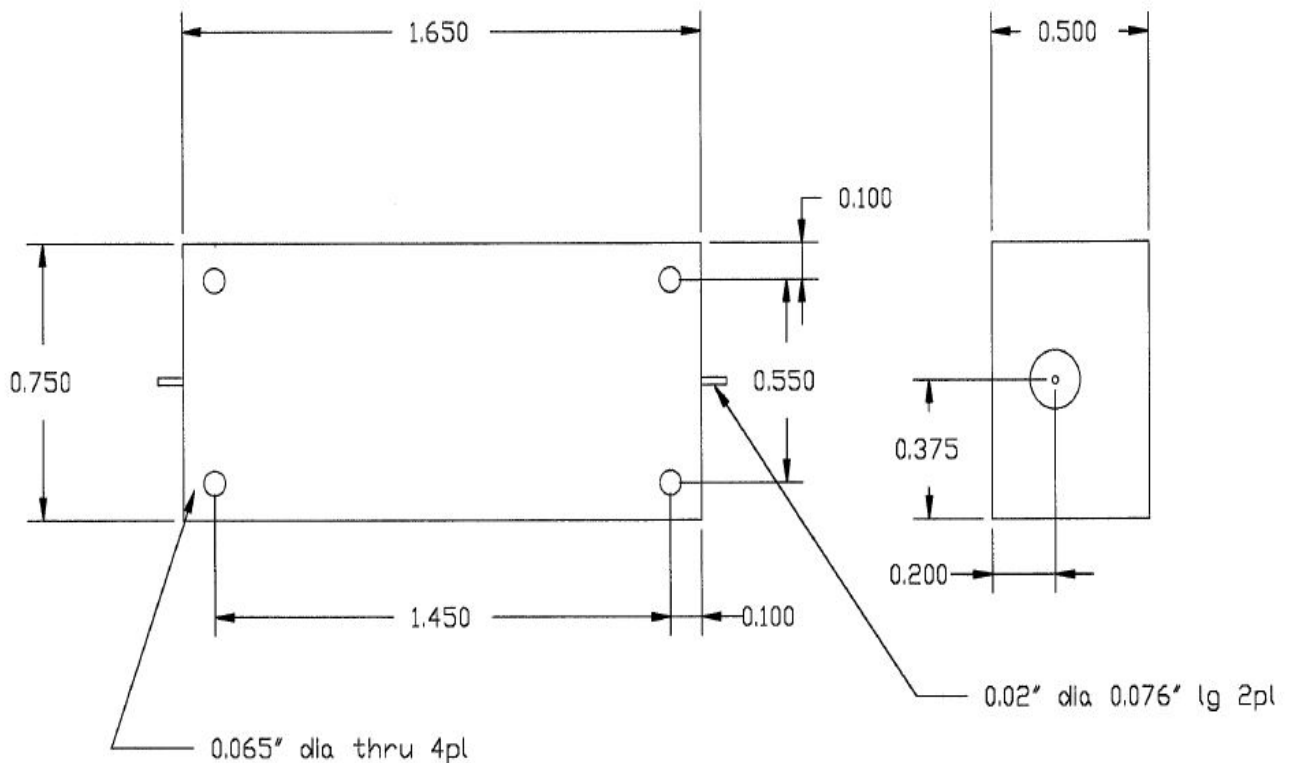
Mechanical

Mounting Method: Drop-In Through Holes
Dimensions: 1.65" X 0.75" x 0.5" in.

Environmental

Operating Temperature: -25°C to +70°C
Storage Temperature: -40°C to +90°C
Shock: 20 G. 11ms
Vibration: 20 G. 5 to 200Hz

Outline Drawing:





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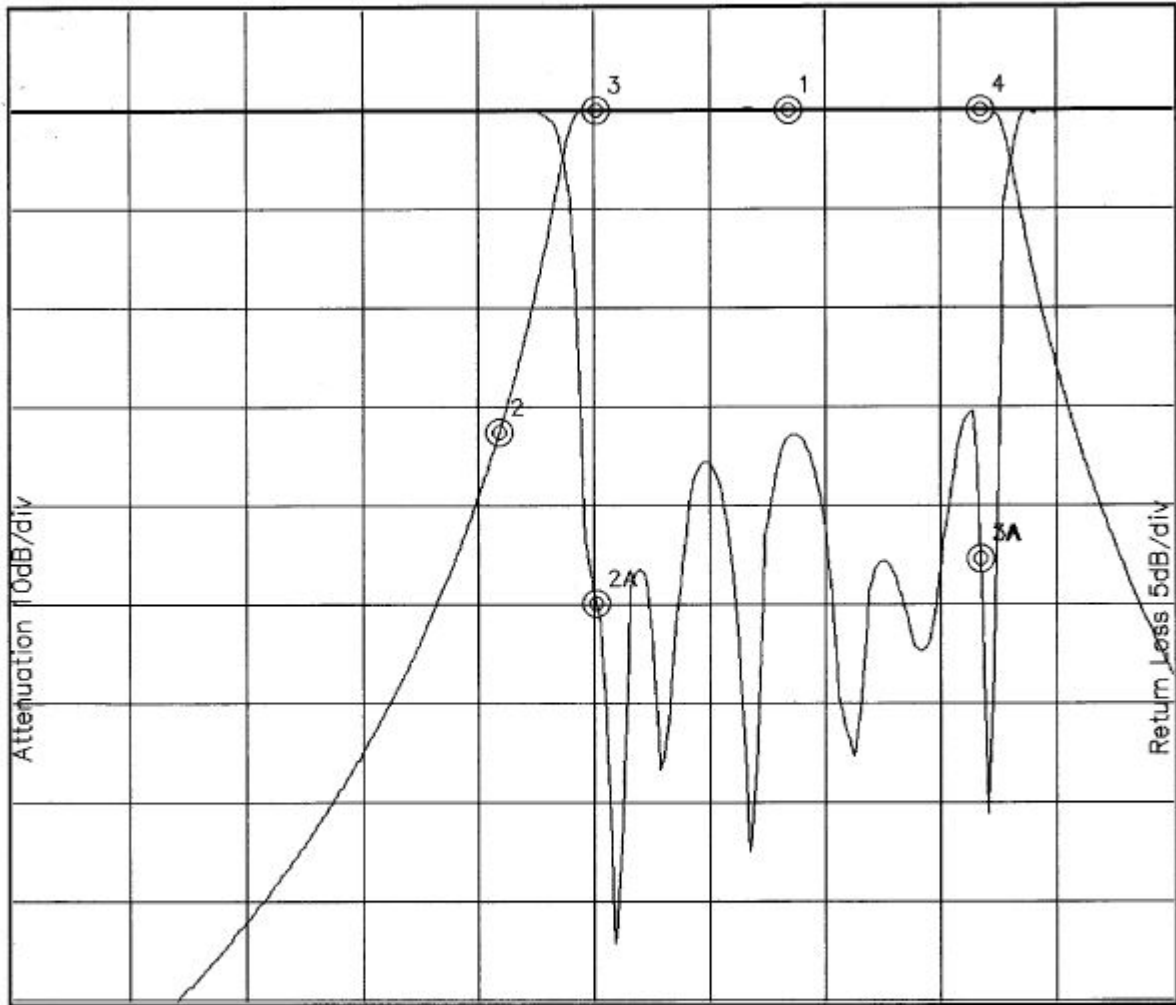


Response Plot:

B6953.lad

APR 5, 2005

Attenuation/Return Loss



Attenuation Start: 8.0GHz Stop: 20.0GHz

Return Loss Start: 8.0GHz Stop: 20.0GHz

Offset -0.2173dB

Marker 1 Freq 16.006GHz Atten 0.018dB
Marker 2 Freq 13.002GHz Atten -32.881dB
Marker 3 Freq 14.010GHz Atten 0.034dB
Marker 4 Freq 18.003GHz Atten -0.060dB

Marker 1A Freq 18.003GHz Ret Loss -22.788dB
Marker 2A Freq 14.010GHz Ret Loss -25.103dB
Marker 3A Freq 18.003GHz Ret Loss -22.788dB