



Electrical Specifications

Center Frequency: 610 MHz
0.5 dB Bandwidth: 4 MHz
3 dB Bandwidth: 8 MHz
Passband: 606-614 MHz
Insertion Loss @ Fo: 9.5 dB Max
Ripple: ±0.25 dB @ 608-612 MHz
VSWR: 1.5:1 Max
Phase Linearity: 1.5° Max @ 606-614 MHz
 1° Max @ 608-612 MHz
Rejection: >10 dB @ 595 & 630 MHz
 >20 dB @ 590 & 640 MHz
 >30 dB @ 580 & 650 MHz
 >40 dB @ 570 & 675 MHz
 >60 dB @ 550 & 700 MHz
Average Power: 1 Watt

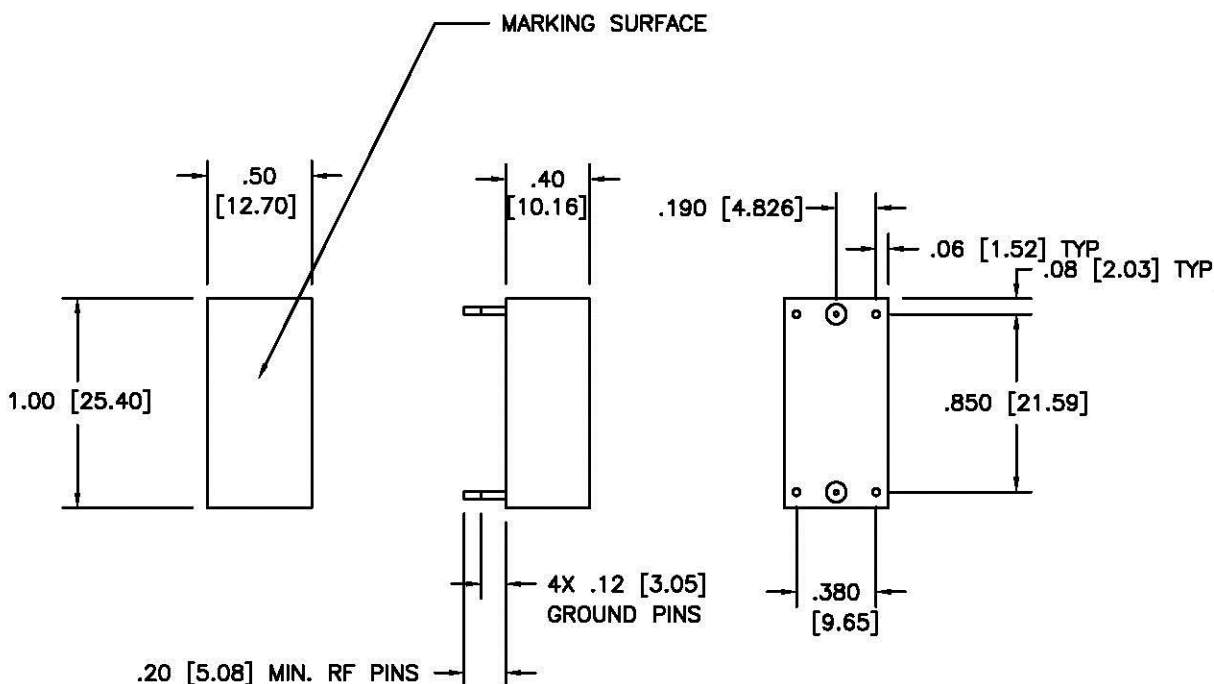
Mechanical

Mounting Method: SMT
Dimensions: 1.00 x 0.5 x 0.4 Inches

Environmental

Operating Temperature: -55 to +85° C
Shock: 20 G's
Vibration: 10 G's
Humidity: 95% Relative

Outline Drawing:





610 MHz Bandpass Filter

Part Number: AE610B11168

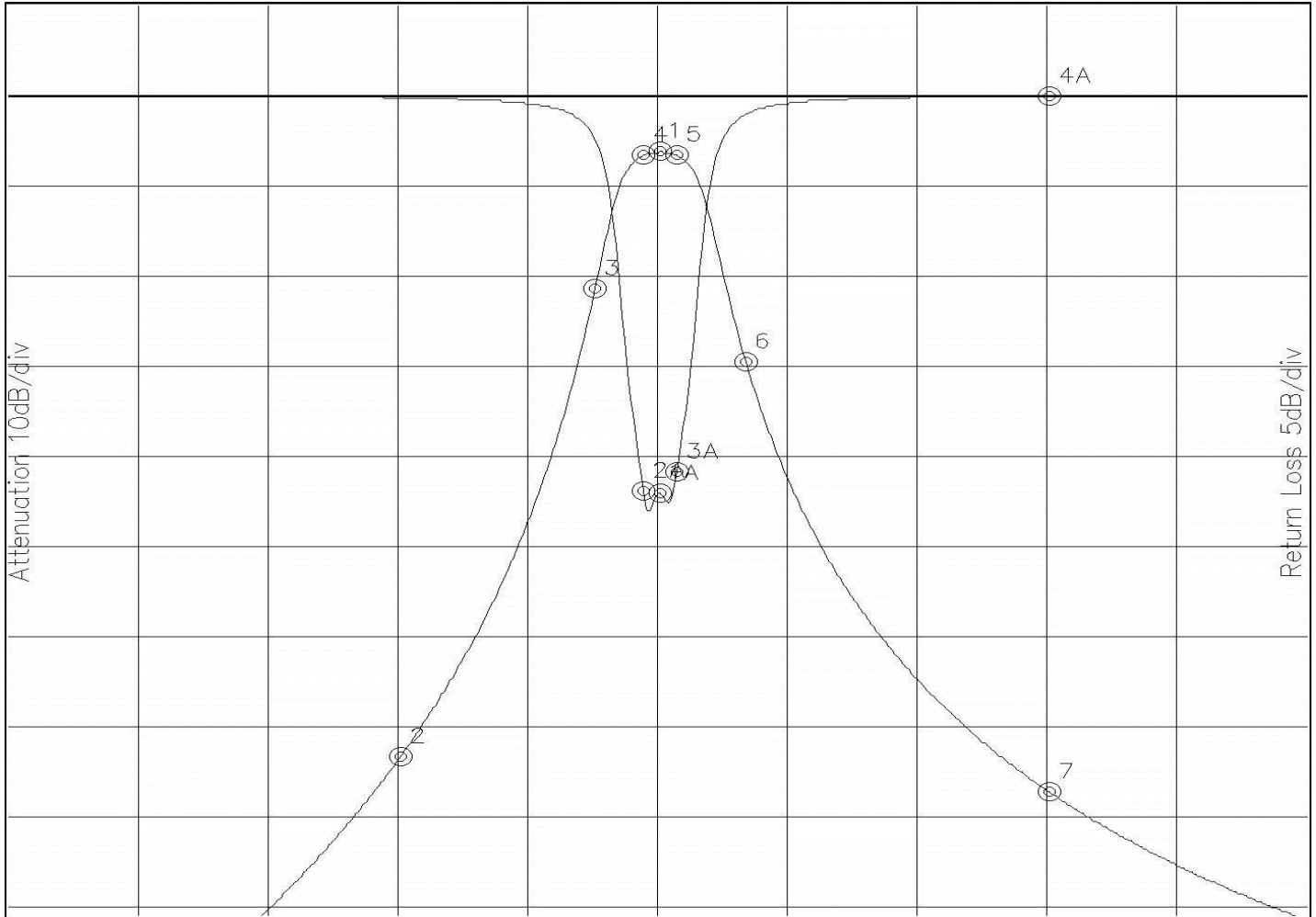


Response Plot:

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Attenuation/Return Loss



Attenuation Start: 460.0MHz Stop: 760.0MHz

Return Loss Start: 460.0MHz Stop: 760.0MHz

Marker 1 Freq 610.24MHz Atten -6.187dB
 Marker 2 Freq 550.14MHz Atten -73.102dB
 Marker 3 Freq 595.21MHz Atten -21.370dB
 Marker 4 Freq 606.36MHz Atten -6.584dB
 Marker 5 Freq 614.12MHz Atten -6.522dB
 Marker 6 Freq 630.11MHz Atten -29.343dB
 Marker 7 Freq 700.38MHz Atten -77.019dB

Marker 1A Freq 610.24MHz Ret Loss -21.945dB
 Marker 2A Freq 606.36MHz Ret Loss -21.900dB
 Marker 3A Freq 614.12MHz Ret Loss -20.765dB
 Marker 4A Freq 700.38MHz Ret Loss 0.000dB

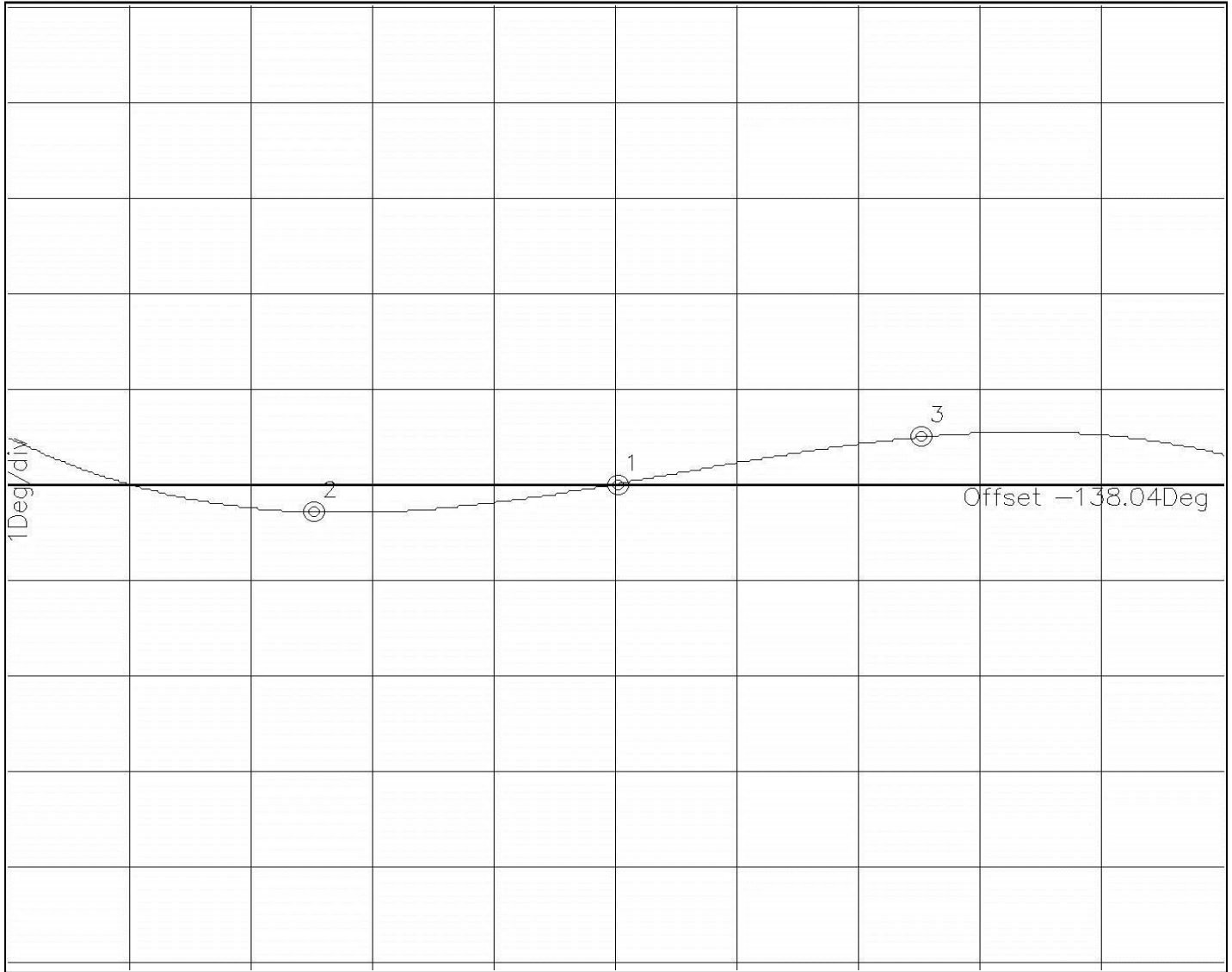


Phase Linearity:

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Phase



Phase Start: 606.0MHz Stop: 614.0MHz

Marker 1 Freq 610.00MHz Phase 0.009Deg

Marker 2 Freq 608.00MHz Phase -0.288Deg

Marker 3 Freq 612.01MHz Phase 0.497Deg