



ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

250MHz LC Bandpass Filter

Part Number: AE250B11032



Electrical specifications

Center Frequency: 250MHz
Bandwidth: 10MHz
Passband: 245 – 255MHz
Passband Insertion Loss: ≤ 5 dB
Passband Return Loss: 10dB
Rejection: @240MHz ≥ 20 dB
Rejection 2: 260MHz ≥ 20 dB
Attenuation: @220MHz 40dB
Attenuation 2: @280 – 500MHz 40dB
Power Handling: 0.1 Watt Max

+/-4 degree phase deviation from linear in the
247.5 - 252.5 MHz bandwidth

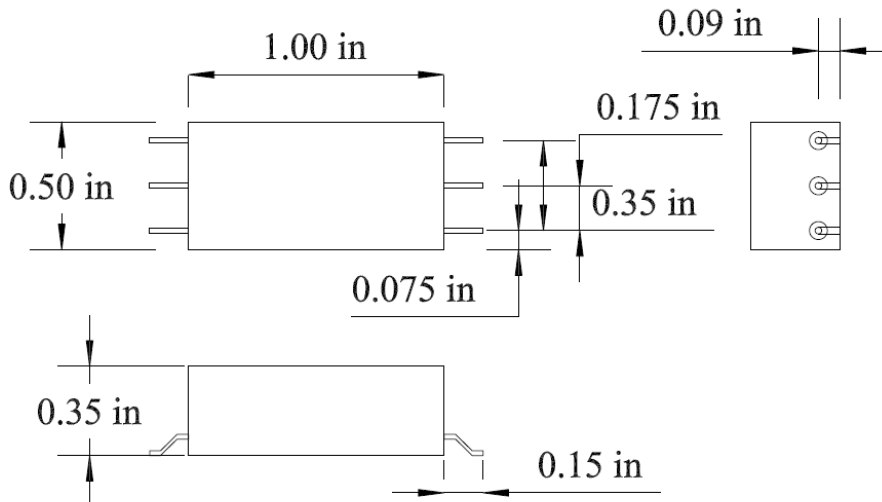
Mechanical

Mounting Method: SMT
Dimensions: 1.00" x 0.50" x 0.35" in.

Environmental

Operating Temperature: -45°C to +85°C
Storage Temperature: -55°C to +100°C

Outline Drawing:





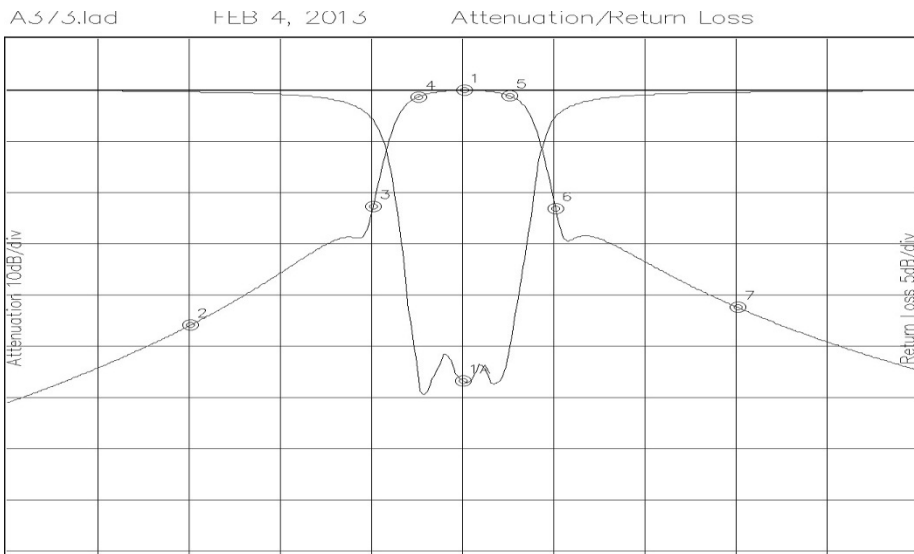
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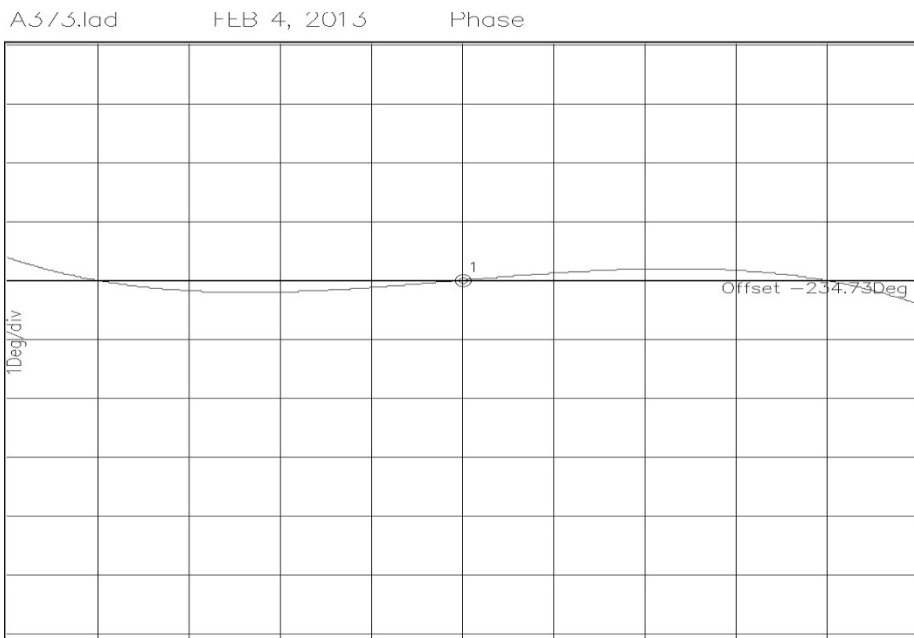
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Plots:



Attenuation Start: 200.0MHz Stop: 300.0MHz Return Loss Start: 200.0MHz Stop: 300.0MHz
Offset -3.4782dB
Marker 1 Freq 250.08MHz Atten 0.050dB Marker 1A Freq 249.91MHz Ret Loss -28.234dB
Marker 2 Freq 220.03MHz Atten -45.648dB
Marker 3 Freq 240.06MHz Atten -22.582dB
Marker 4 Freq 245.07MHz Atten -1.222dB
Marker 5 Freq 255.08MHz Atten -1.107dB
Marker 6 Freq 260.09MHz Atten -23.006dB
Marker 7 Freq 280.12MHz Atten -42.277dB



Phase Start: 247.50MHz Stop: 252.50MHz
Marker 1 Freq 249.99MHz Phase 0.005Deg