



Electrical Specifications

Pass Band: 1 dB @ 425 MHz Max
Insertion Loss: 1.0 dB @ 467.5 MHz
In/Out VSWR: 1.25:1 @ 425 MHz
Stopband: 50 dB @ 8.0 MHz Min
Phase Deviation from Linear: 425-525 MHz shall not exceed $\pm 1.0^\circ$. 395-425 MHz and 525-555 MHz shall not exceed $\pm 0.25^\circ$.

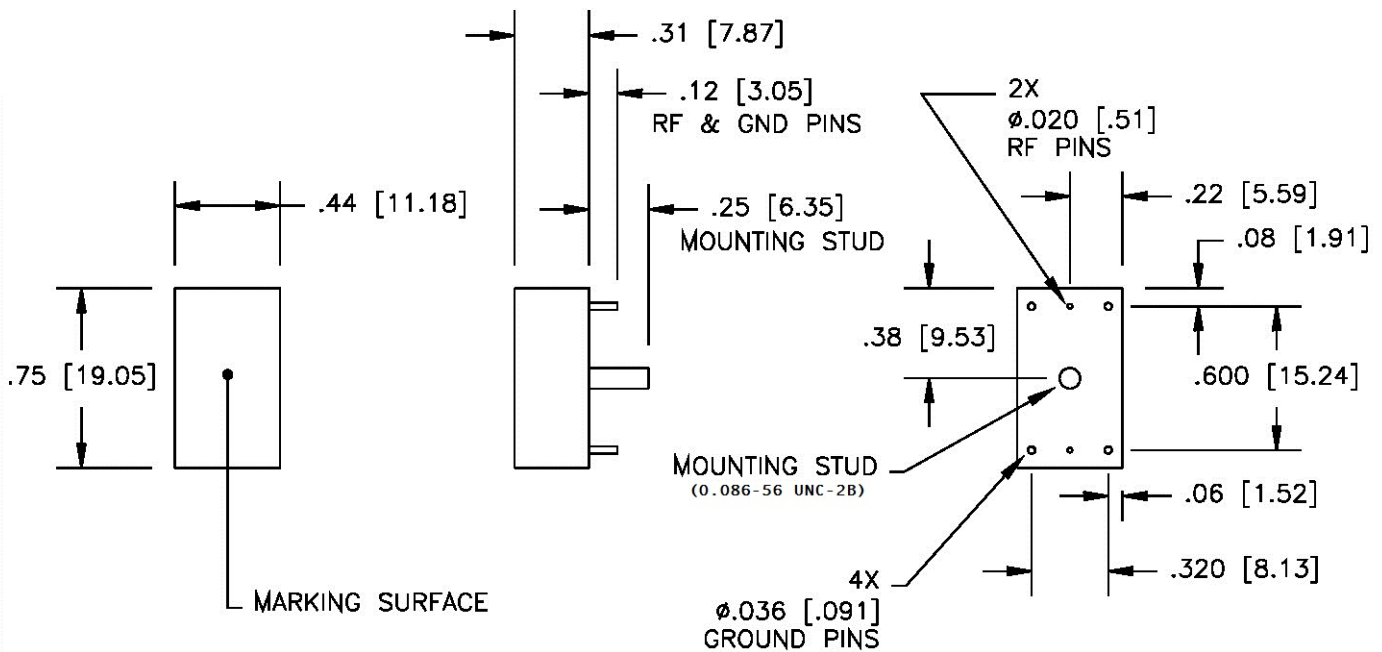
Mechanical

Connector Type: RF Pins
Dimensions: 0.75 x 0.44 x 0.31 Inches

Environmental

Operating Temperature: -30 to +85° C
Storage Temperature: -40 to +95° C
Shock: 20 G. 11 ms
Vibration: 20 G. 5 to 200 Hz

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.

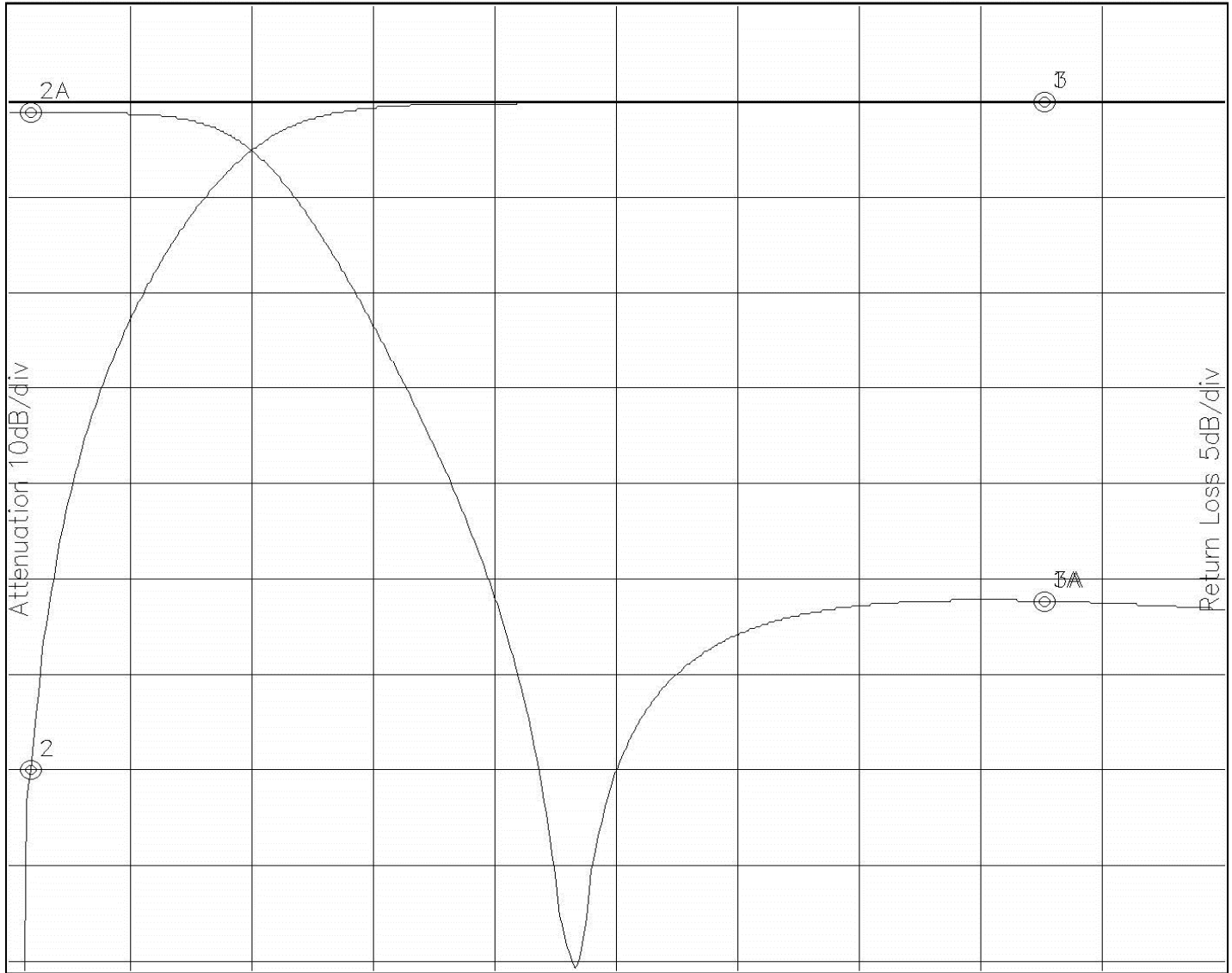


Simulation Plot:

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Attenuation/Return Loss



Attenuation Start: 0.050MHz Stop: 500.0MHz

Return Loss Start: 0.050MHz Stop: 500.0MHz

Marker 1 Freq 425.68MHz Atten -0.035dB
 Marker 2 Freq 8.078MHz Atten -69.729dB
 Marker 3 Freq 425.68MHz Atten -0.035dB

Marker 1A Freq 425.68MHz Ret Loss -26.062dB
 Marker 2A Freq 8.078MHz Ret Loss -0.544dB
 Marker 3A Freq 425.68MHz Ret Loss -26.062dB

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



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RF & Microwave Filters & Products

200 MHz LC High Pass Filter

Part Number: AE200H9897

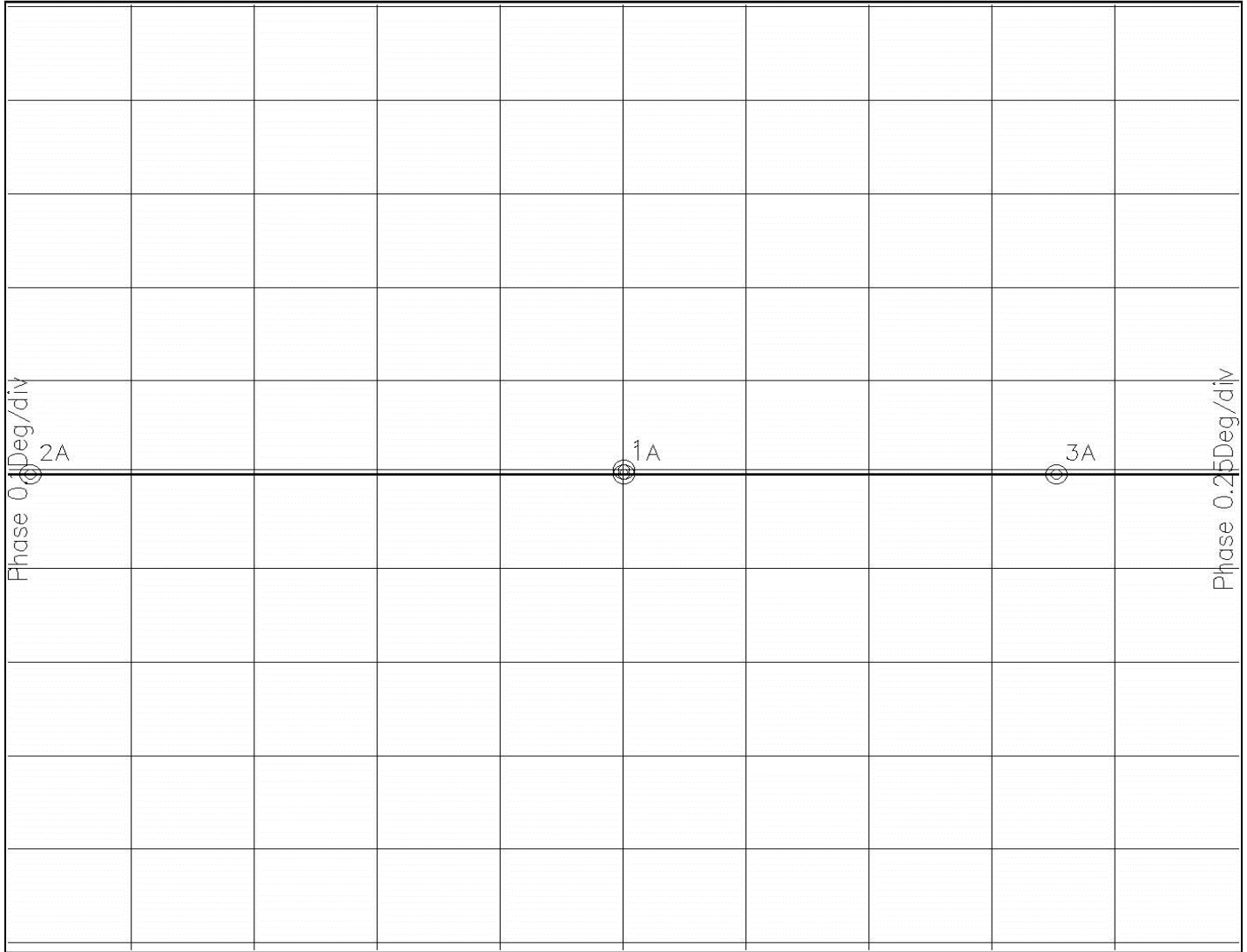


Phase:

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Phase/Phase



Phase Start: 525.0MHz Stop: 555.0MHz

Phase Start: 395.0MHz Stop: 425.0MHz

Offset 71.2326Deg

Offset -178.08Deg

Marker 1 Freq 539.97MHz Phase -373.243Deg

Marker 1A Freq 409.97MHz Phase -124.366Deg

Marker 2A Freq 395.48MHz Phase -124.090Deg

Marker 3A Freq 420.54MHz Phase -124.514Deg



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200 MHz LC High Pass Filter

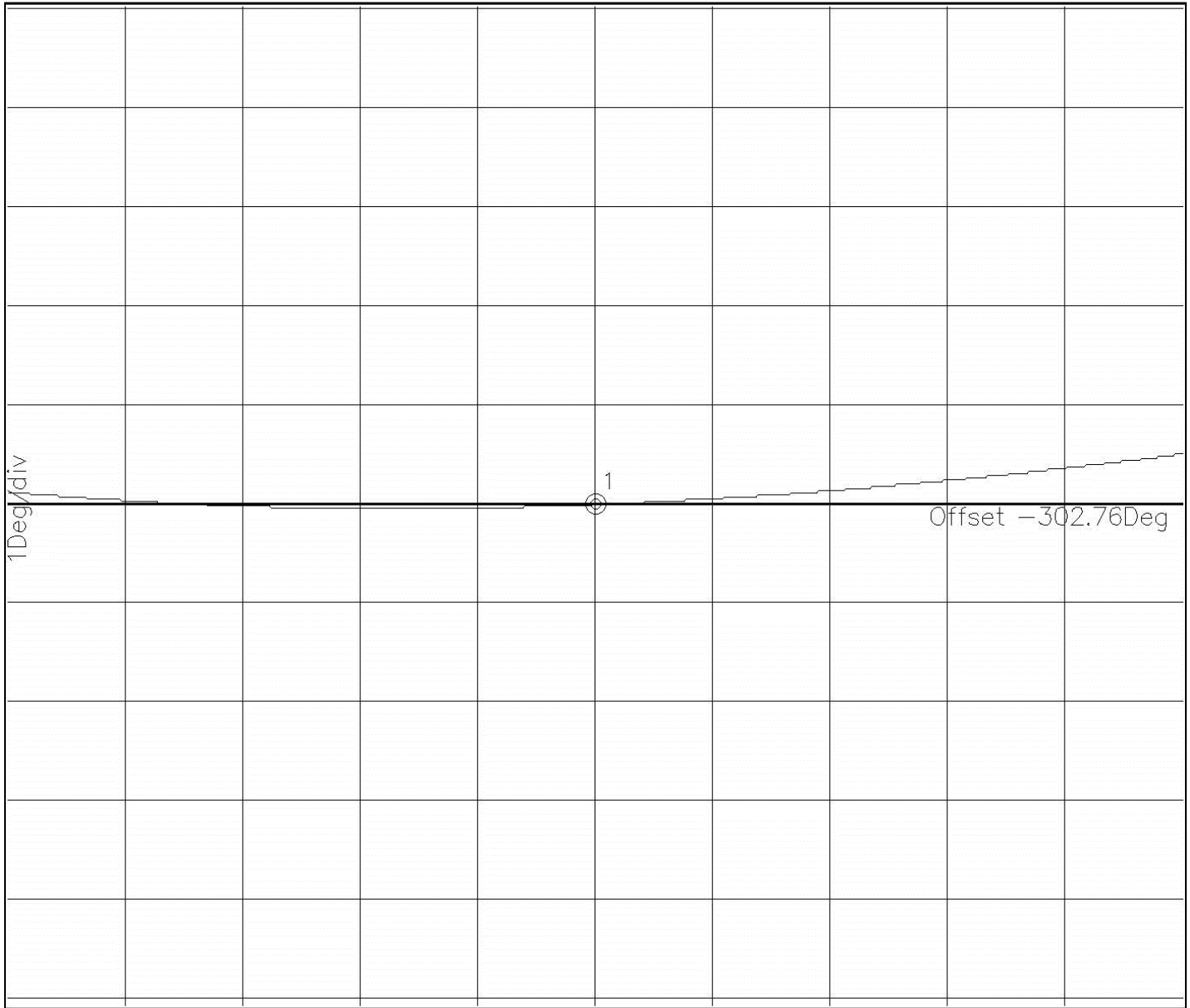
Part Number: AE200H9897



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Phase



Phase Start: 425.0MHz Stop: 525.0MHz

Marker 1 Freq 474.91MHz Phase -0.010Deg



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200 MHz LC High Pass Filter

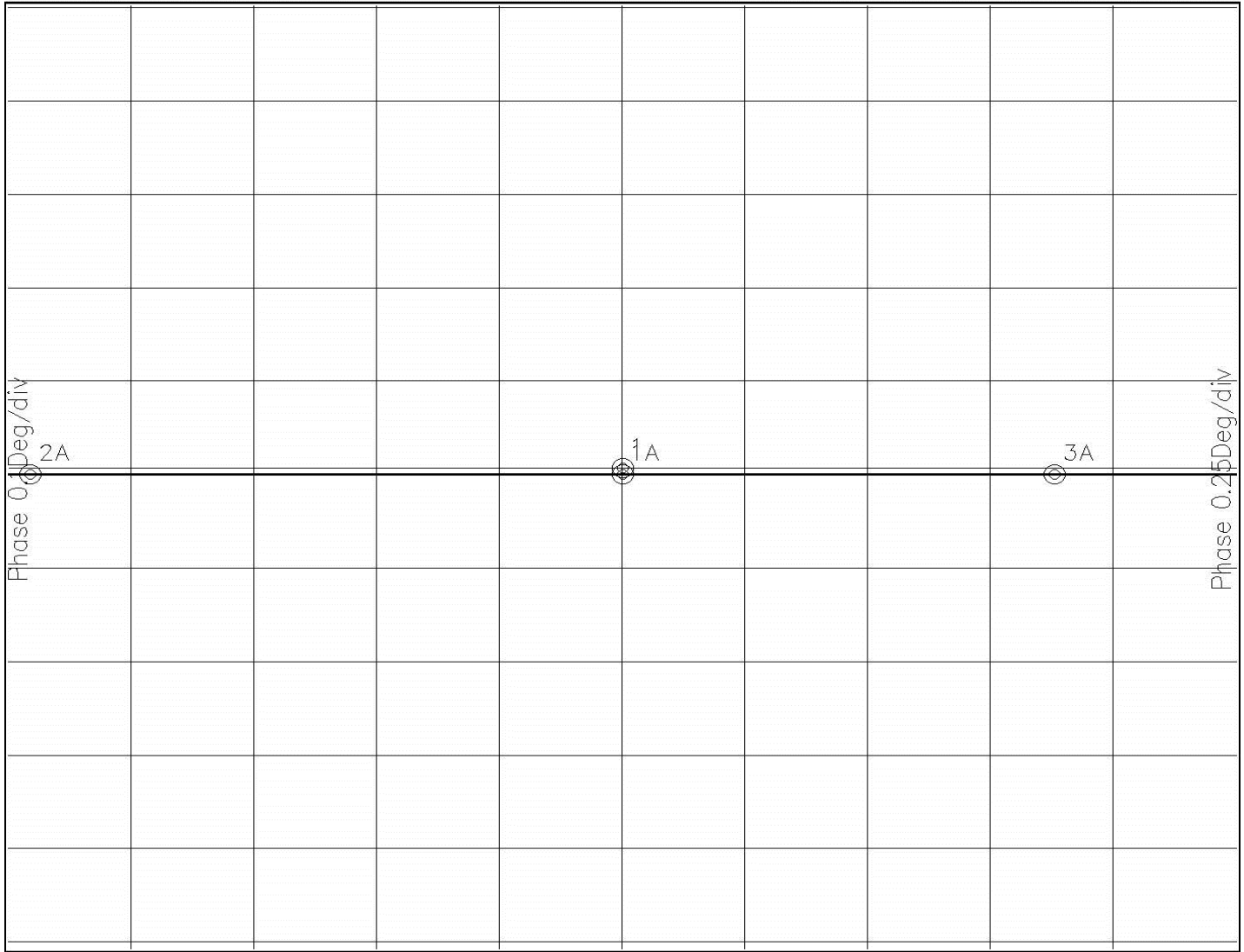
Part Number: AE200H9897



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Phase/Phase



Phase Start: 395.0MHz Stop: 425.0MHz
Offset 71.2304Deg
Marker 1 Freq 409.97MHz Phase -373.678Deg

Phase Start: 395.0MHz Stop: 425.0MHz
Offset -178.08Deg
Marker 1A Freq 409.97MHz Phase -124.366Deg
Marker 2A Freq 395.48MHz Phase -124.090Deg
Marker 3A Freq 420.54MHz Phase -124.514Deg