



### Electrical Specifications

**Pass Band:** 3.0 dB @ 533-567 MHz  
0.5 dB @ 541-559 MHz  
**Insertion Loss:** 5.0 dB @ 550 MHz  
**In/Out VSWR:** 1.50:1 Max @ 541-559 MHz  
**Stopband:** 10 dB @ 520 and 585 MHz  
20 dB @ 515 and 595 MHz  
30 dB @ 505 and 607 MHz  
40 dB @ 495 and 625 MHz  
60 dB @ 475 and 685 MHz  
50 dB @ 670 MHz  
**Phase Linearity:**  $\pm 1.0^\circ$  from 545-555 MHz  
Deviation from any 10 MHz segment of the 0.5 dB pass band shall not exceed  $\pm 1.5^\circ$ .

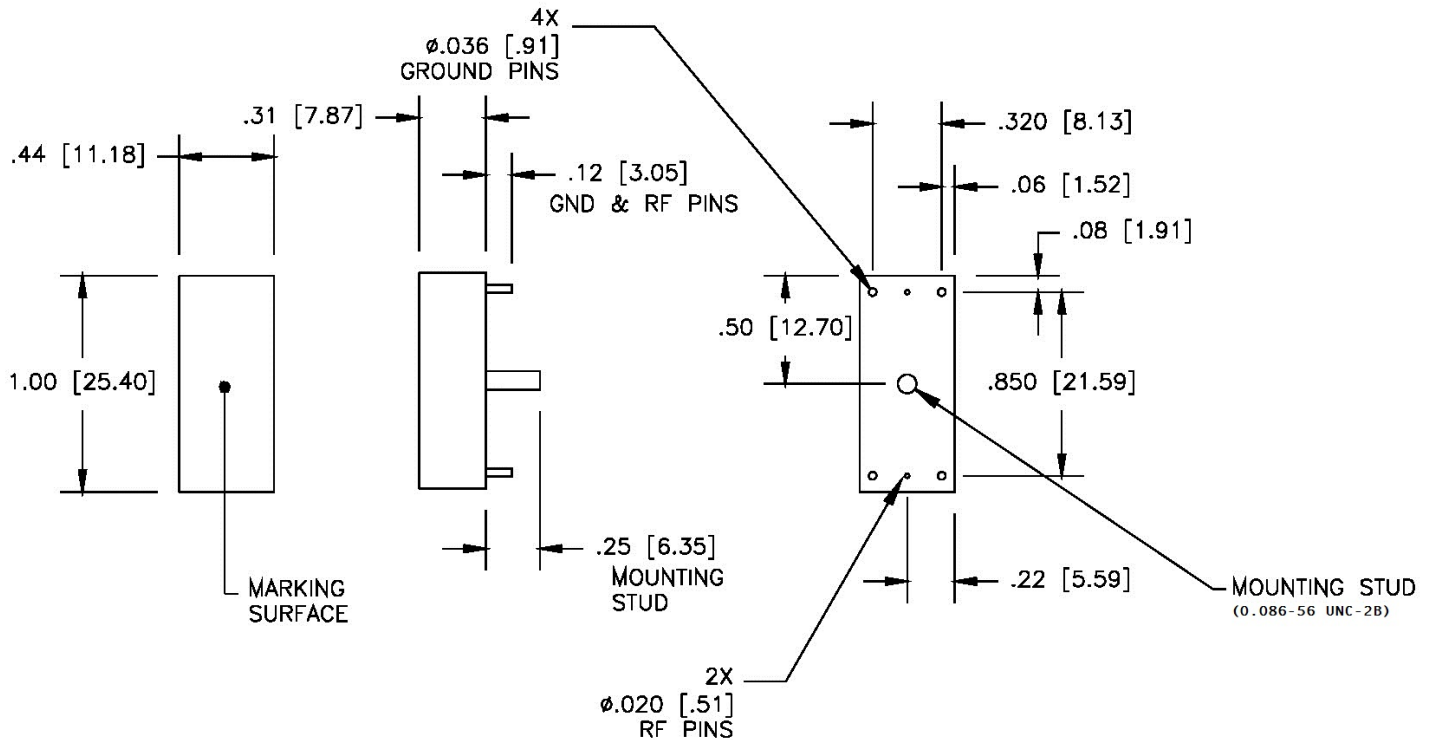
### Mechanical

**Connector Type:** RF Pins  
**Dimensions:** 1.00 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 MHz

### 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.

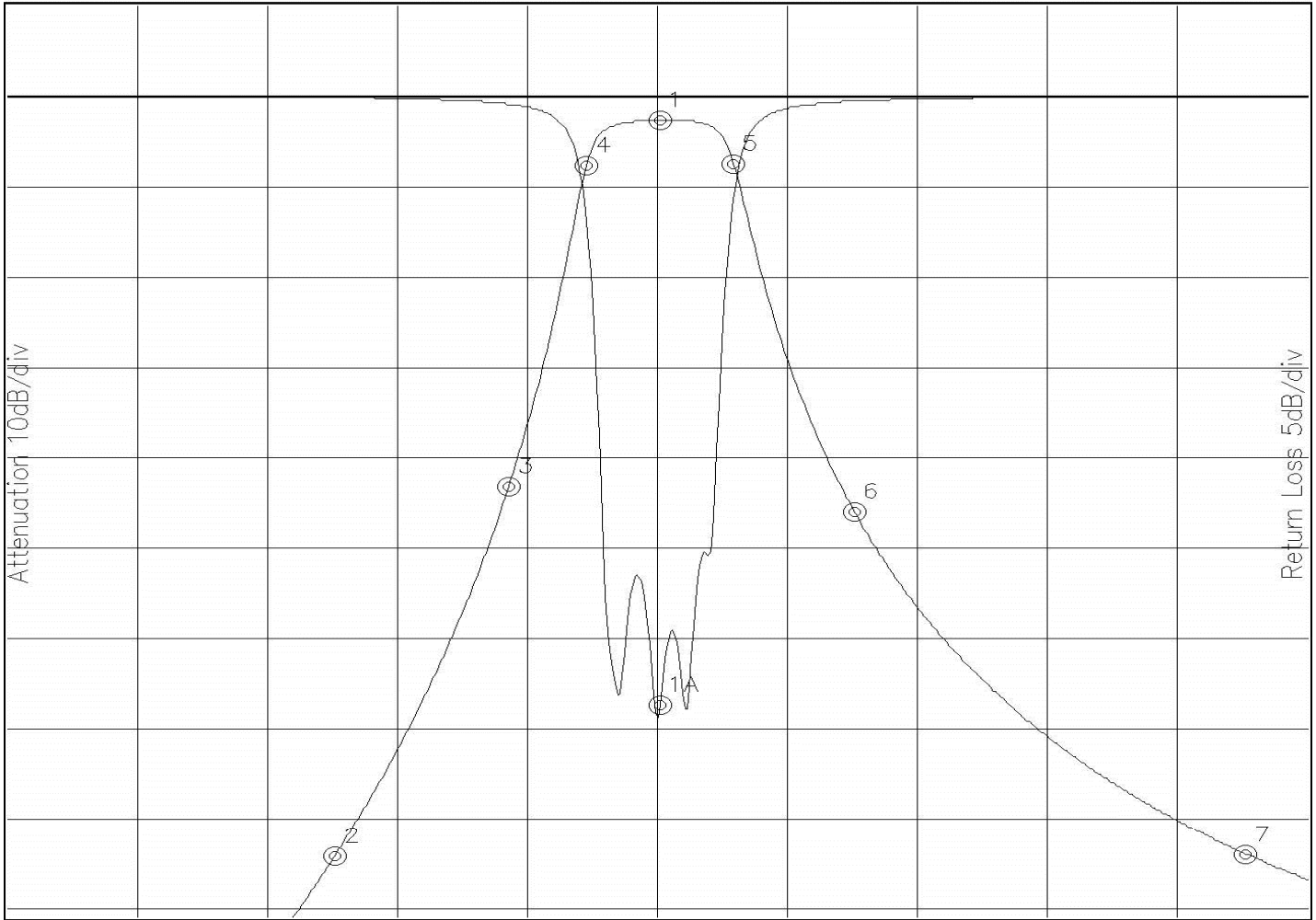


### Simulation Plot:

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Attenuation/Return Loss



Attenuation Start: 400.0MHz Stop: 700.0MHz

Return Loss Start: 400.0MHz Stop: 700.0MHz

Marker 1 Freq 550.24MHz Atten -2.516dB  
Marker 2 Freq 475.12MHz Atten -83.825dB  
Marker 3 Freq 515.34MHz Atten -42.955dB  
Marker 4 Freq 533.27MHz Atten -7.501dB  
Marker 5 Freq 567.20MHz Atten -7.290dB  
Marker 6 Freq 595.31MHz Atten -45.937dB  
Marker 7 Freq 685.46MHz Atten -83.592dB

Marker 1A Freq 550.24MHz Ret Loss -33.623dB

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

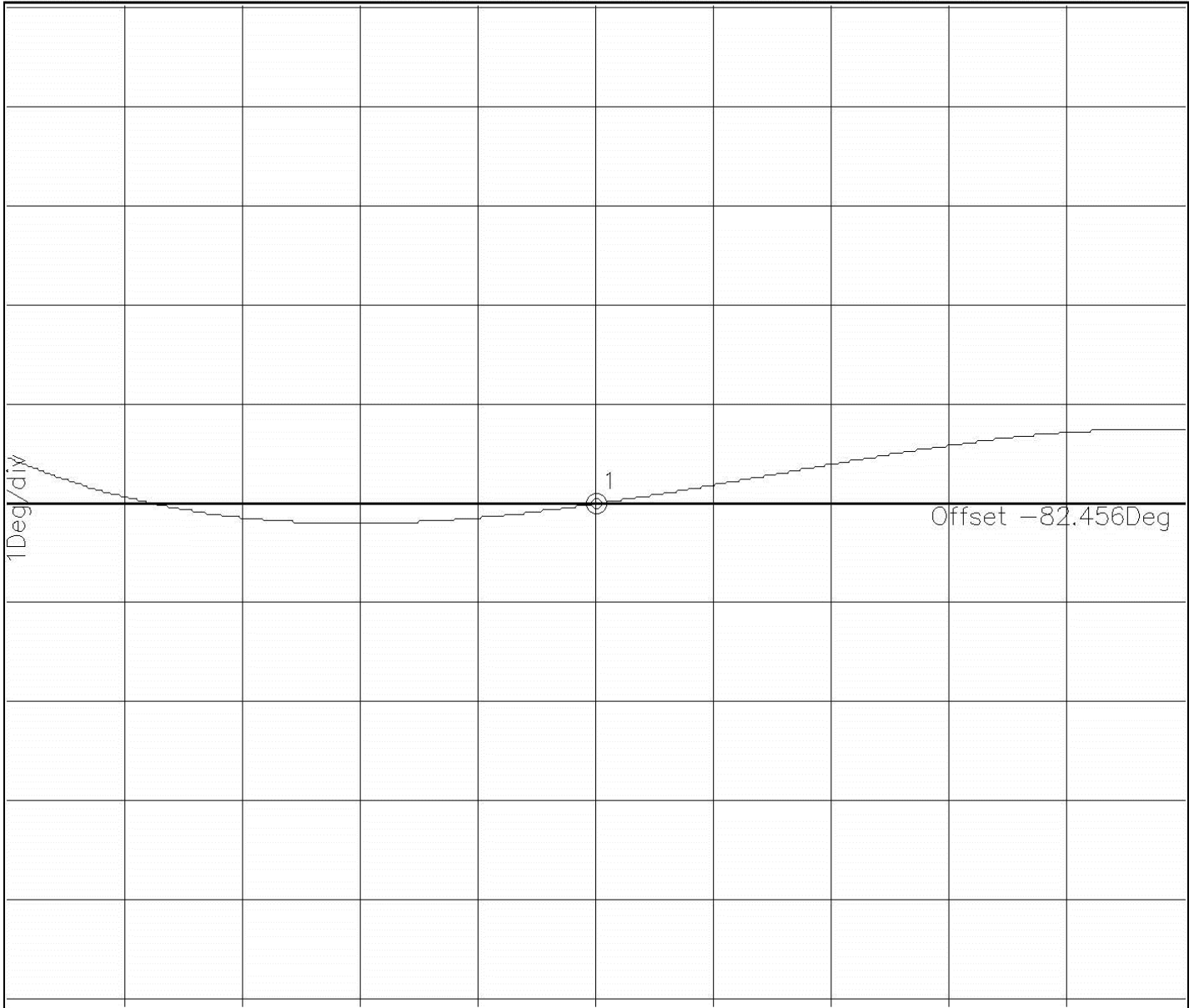


### Phase:

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Phase

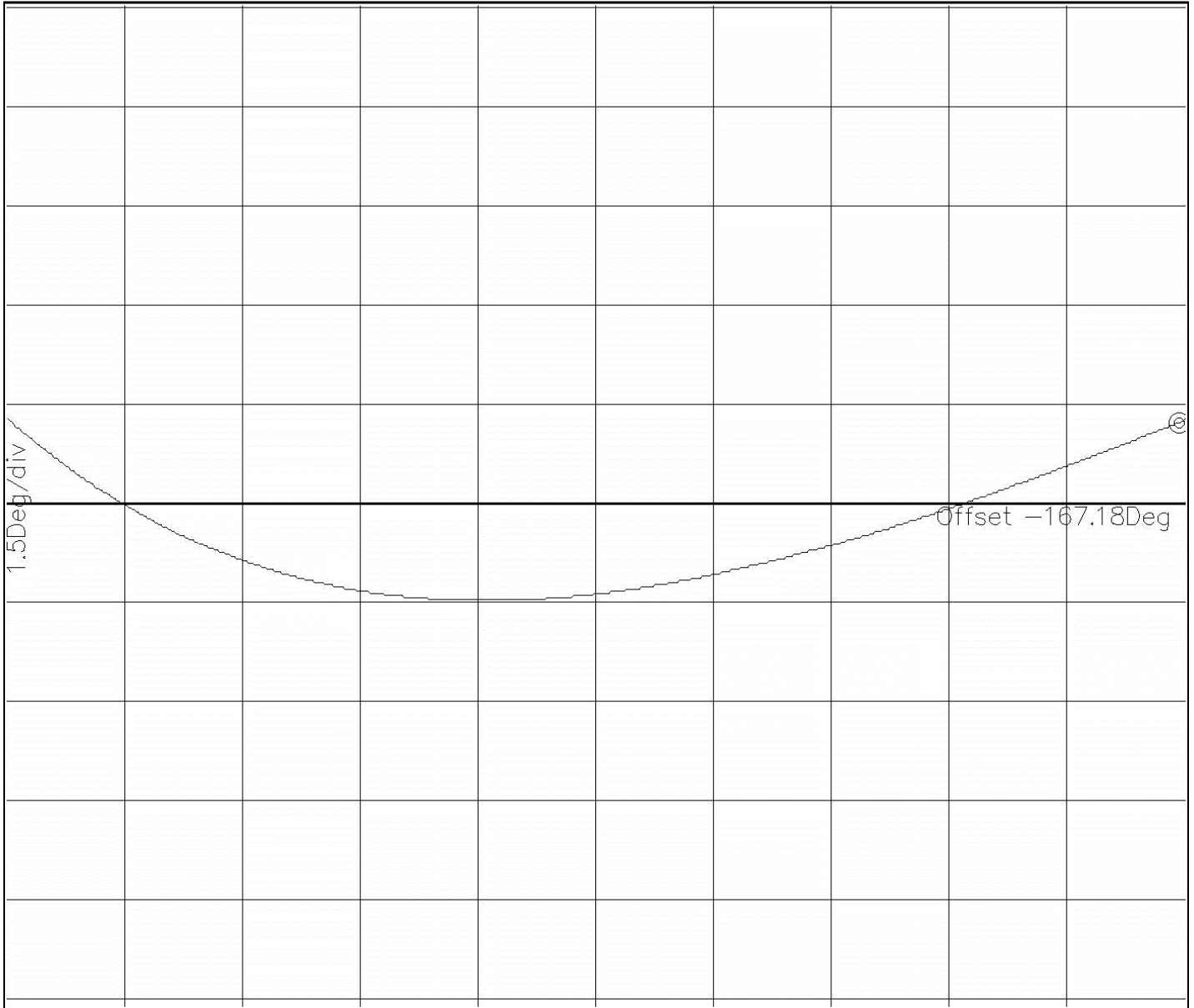


Phase Start: 545.0MHz Stop: 555.0MHz

Marker 1 Freq 549.99MHz Phase -0.005Deg



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Phase Start: 541.0MHz    Stop: 551.0MHz  
Marker 1 Freq 550.95MHz Phase 1.222Deg