



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 $\pm 1.5^\circ$.

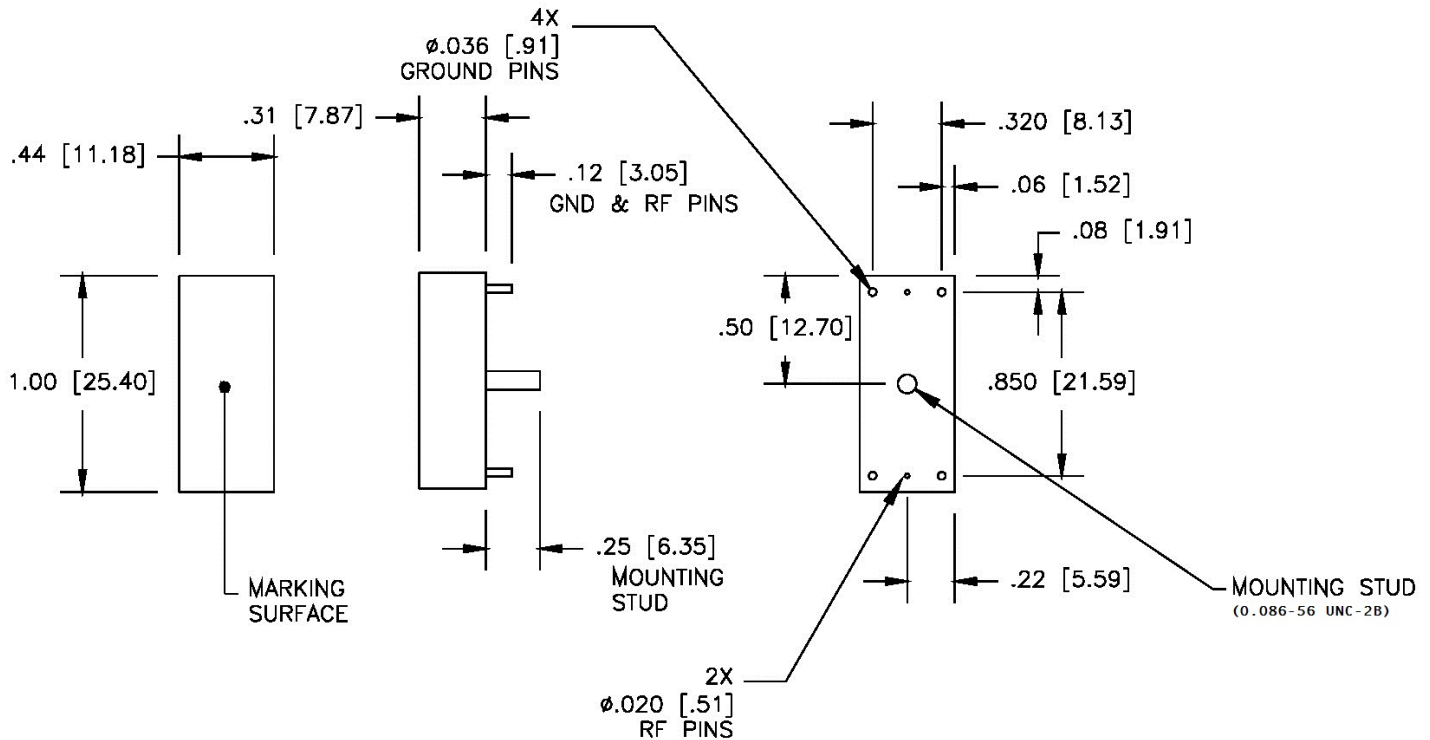
Mechanical

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.

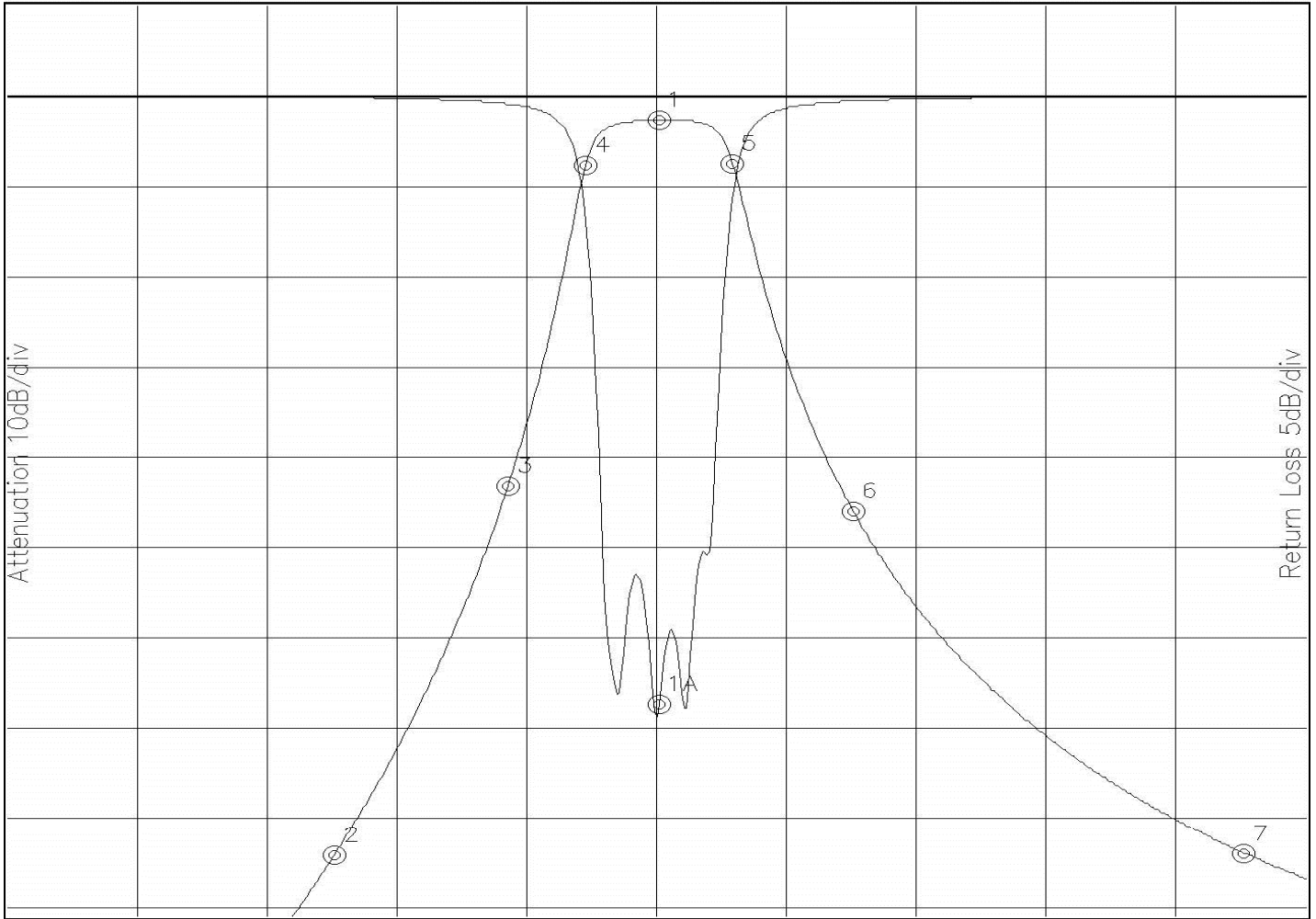


Simulation Plot:

A4/6.lad

FEB 4, 2015

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

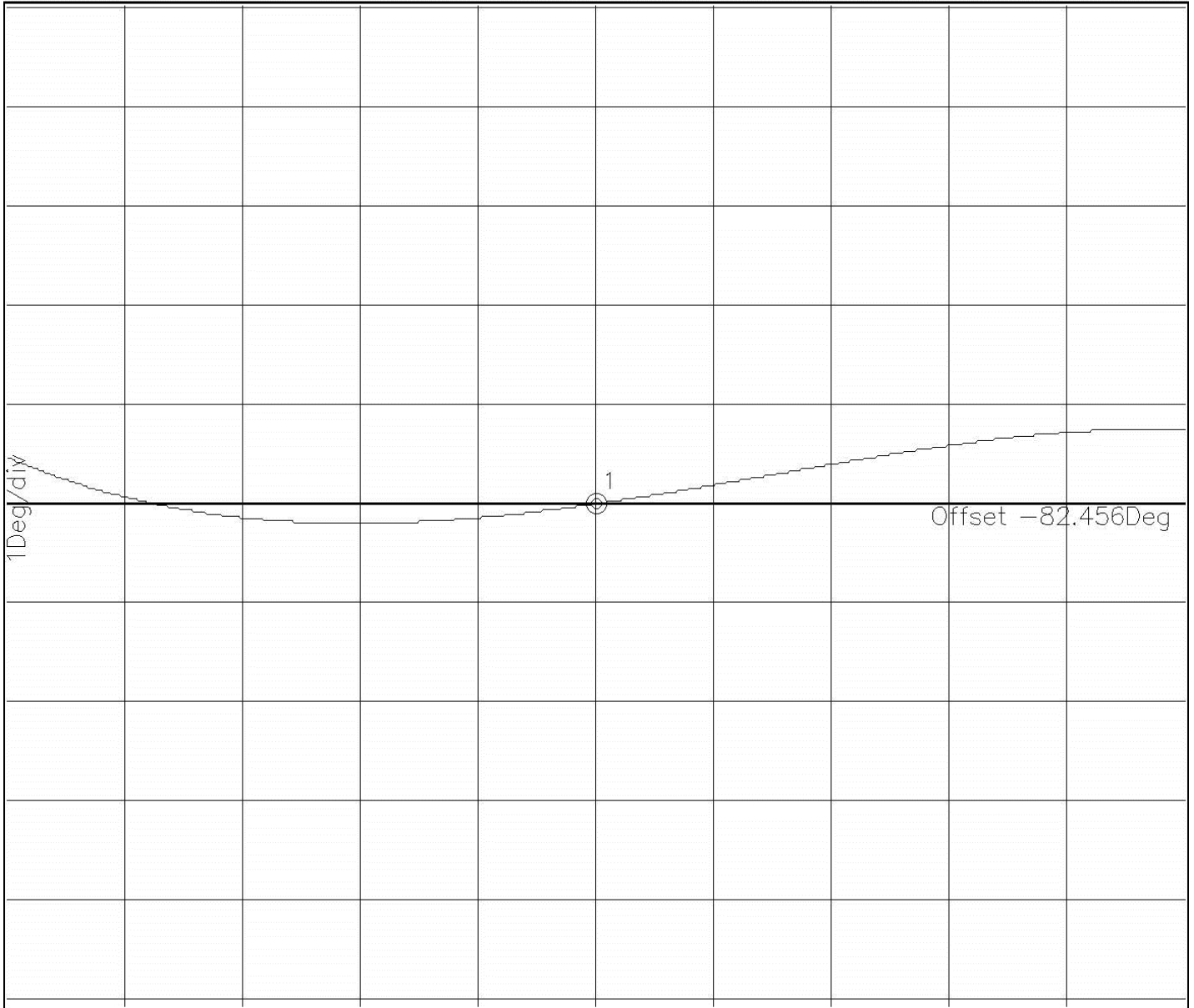
Marker 1A Freq 550.24MHz Ret Loss -33.623dB

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



Phase:

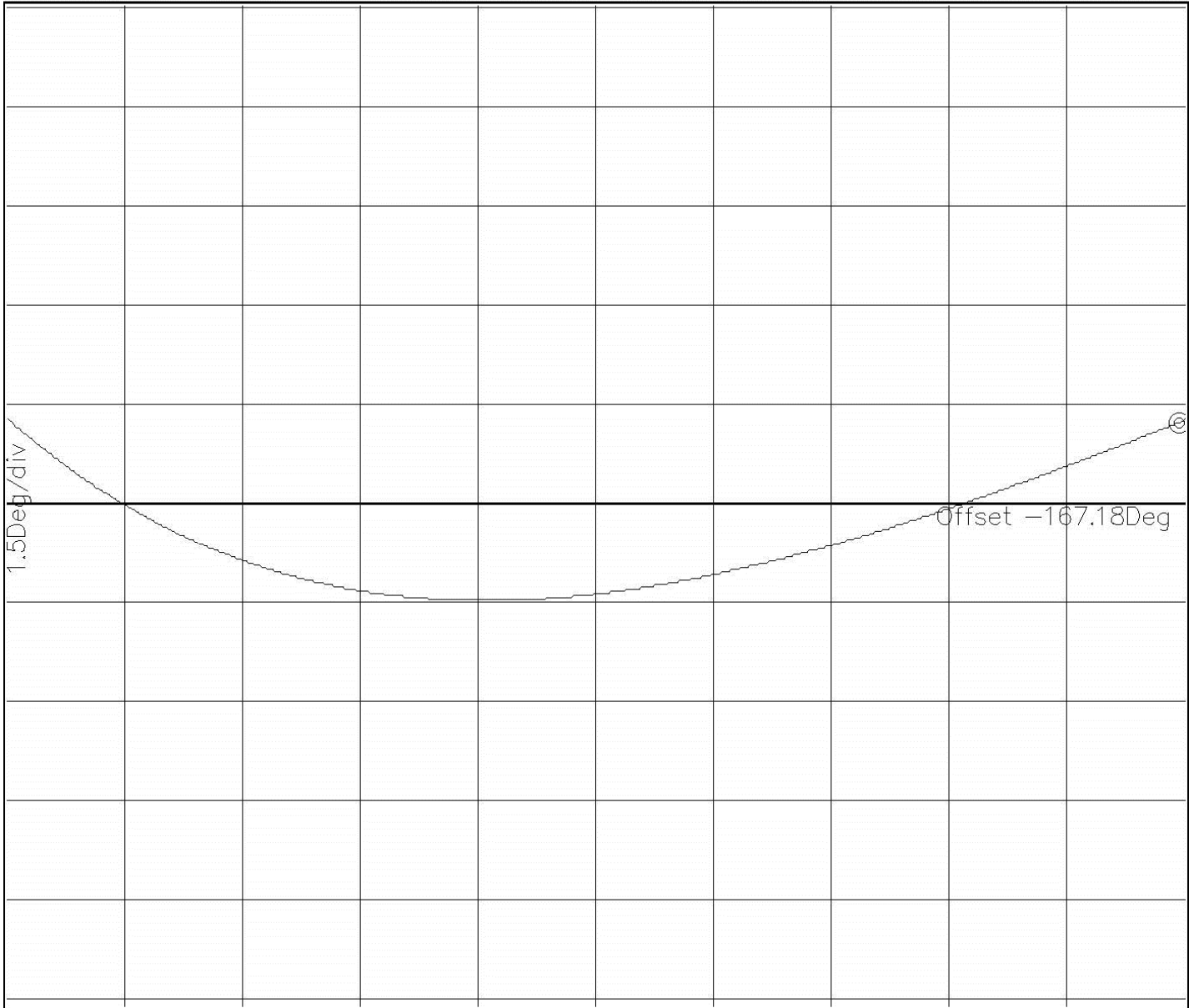
A4/6.lad FEB 4, 2015 Phase



Phase Start: 545.0MHz Stop: 555.0MHz
Marker 1 Freq 549.99MHz Phase -0.005Deg



A4/6.lad FEB 4, 2015 Phase



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