



Part Number: OMNI-0.5-20-12 (*patent pending*)

OMNIDIRECTIONAL HIGH GAIN BROADBAND ANTENNA – 500 MHz TO 20 GHz



Size:

- 5.4" height
- 4.5" diameter

Polarization:

- Vertical

Weight:

- 4.5 lbs

Performance:

- 500 MHz to 20 GHz

Input:

- SMA

Pure Passive Gain

(transmit/receive):

- See measured results below

VSWR:

- Better than 3 to 1



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Measured Gain and Return Loss:

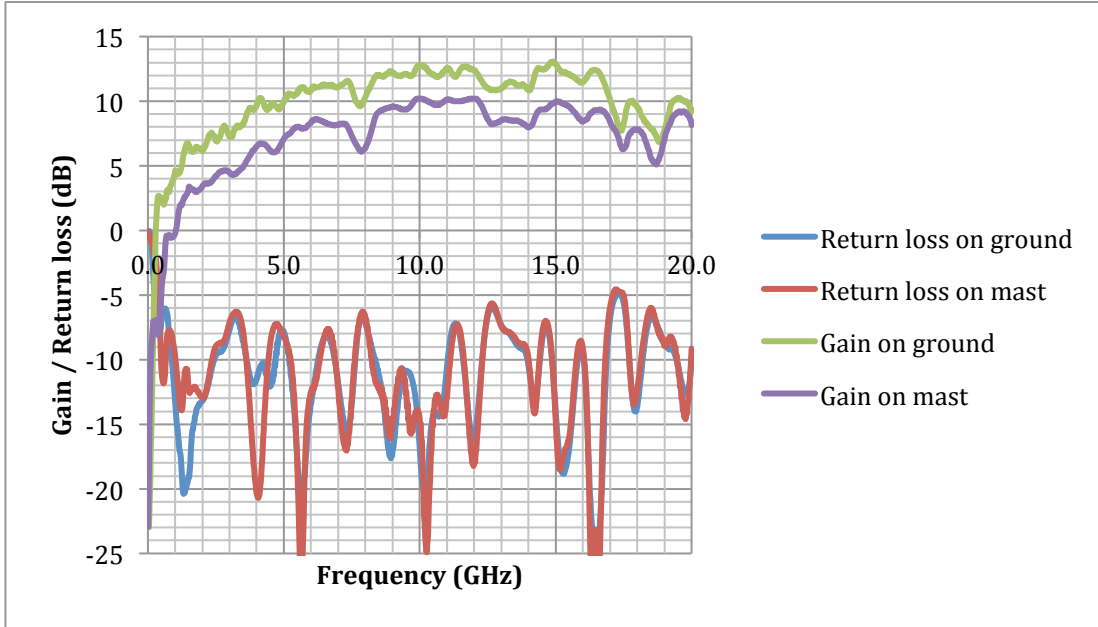


Figure 1. Measured Gain and Return Loss

Azimuth Measured Patterns, un-normalized for ease of viewing:

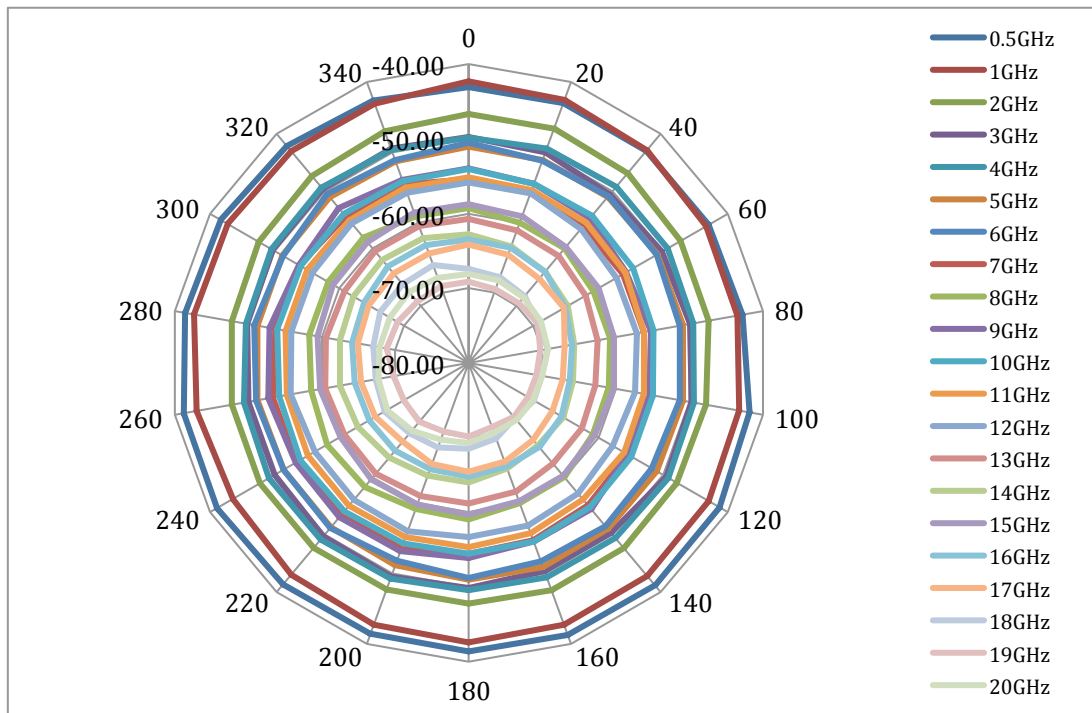


Figure 2. Azimuth pattern on the mast



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Elevation Measured Patterns, un-normalized for ease of viewing

(Note: The horizon is 0 and 180 degrees):

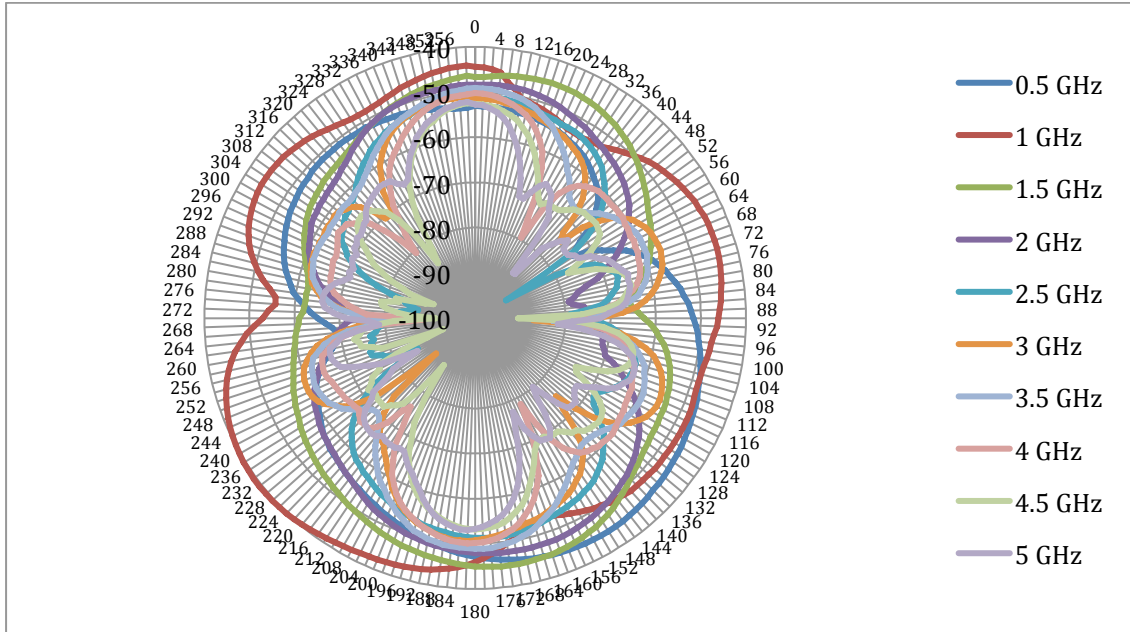


Figure 3. Elevation Patterns on the mast - 0.5 GHz to 5 GHz

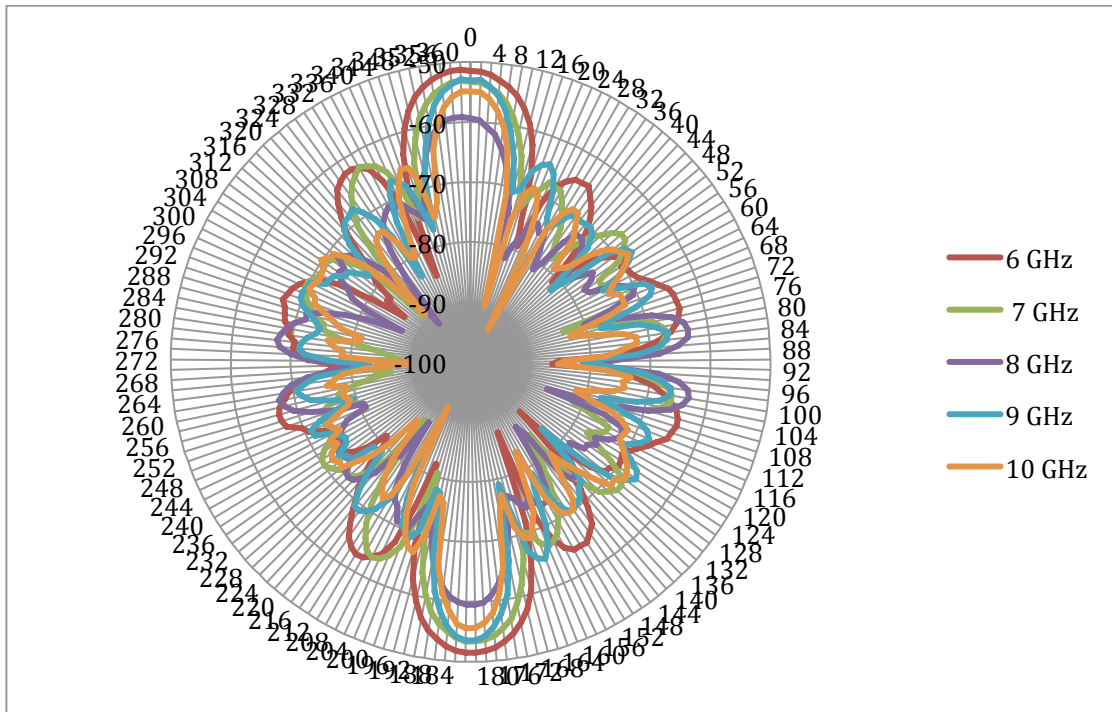


Figure 4. Elevation Patterns on the mast - 6 GHz to 10 GHz



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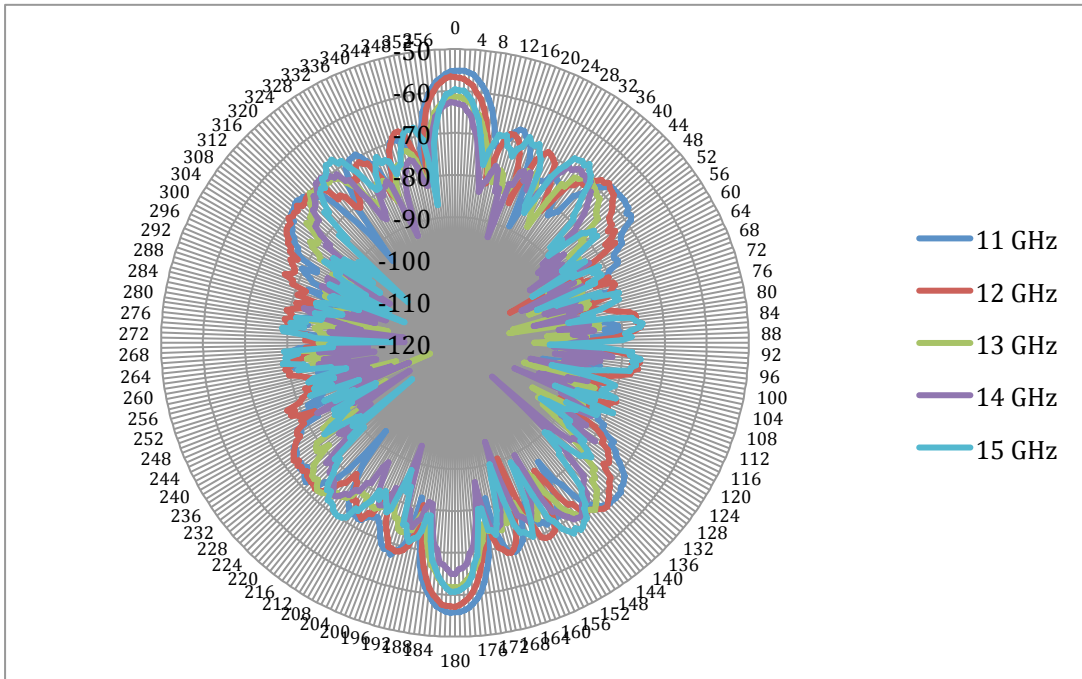


Figure 5. Elevation on the mast - 11 GHz to 15 GHz

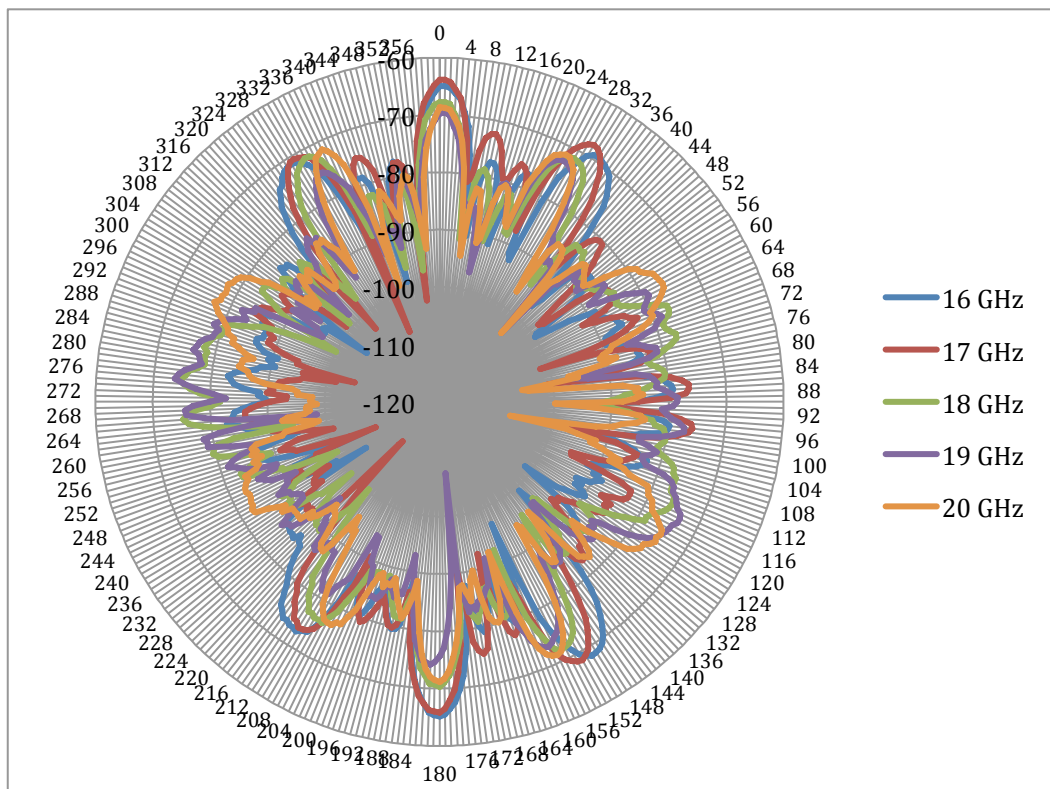


Figure 6. Elevation on the mast - 16 GHz to 20 GHz



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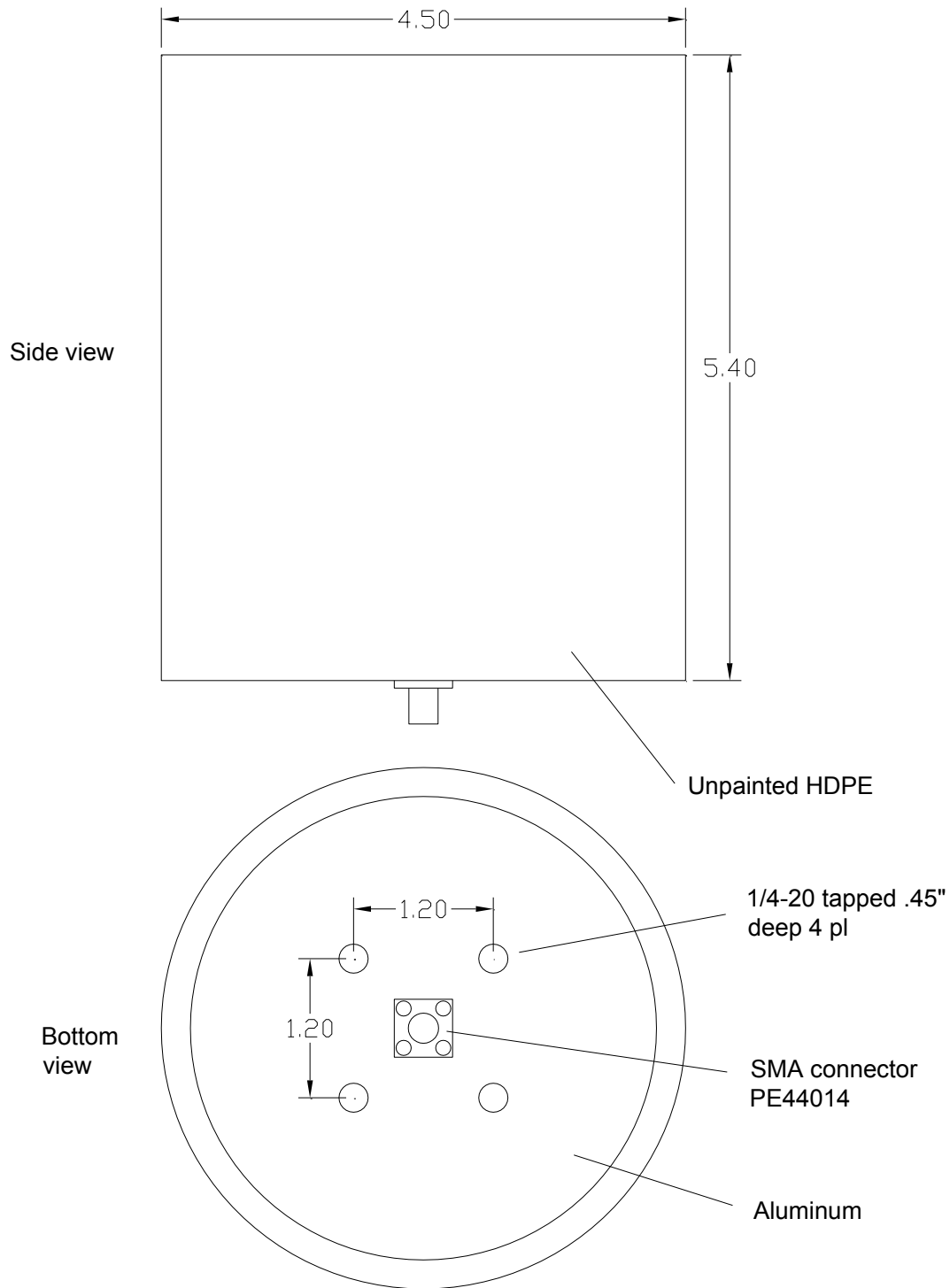


Figure 7. Outline Drawing of Antenna