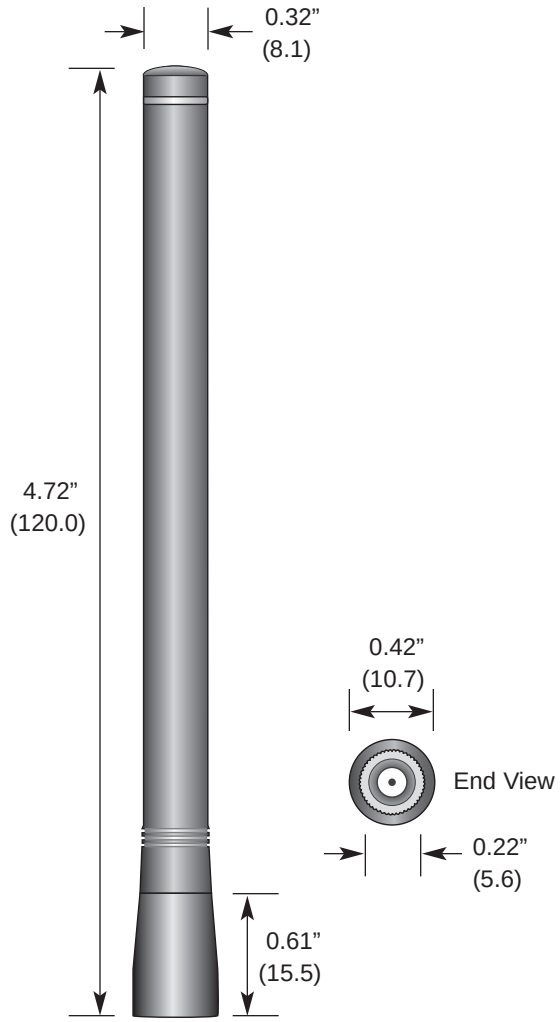
ANT-916-CW-HW DATA SHEETS

Product Dimensions



Description

HW Series 1/2-wave center-fed dipole antennas deliver outstanding performance in a rugged and cosmetically attractive package. The antenna’s internal counterpoise eliminates external ground plane dependence and maximizes performance. HW Series antennas attach using an FCC-compliant RP-SMA connector, though alternate connectors and custom colors are available for volume OEMs.

Features

- Low cost
- Outstanding VSWR
- Internal counterpoise
- Omni-directional pattern
- Rugged construction
- Damage-resistant
- Part 15 compliant RP-SMA connector
- Available in black or custom colors

Electrical Specifications

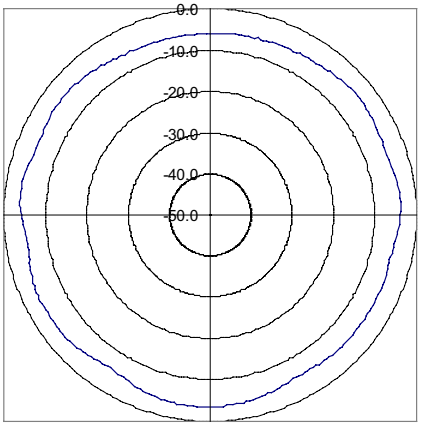
- Center Freq. 916MHz
- Bandwidth 30MHz
- Wavelength 1/2-wave
- VSWR <1.9 typ. at center
- Impedance 50 ohms
- Gain -2.96dBi
- Connector RP-SMA

Electrical specifications and plots measured on 4.00” x 4.00” reference ground plane

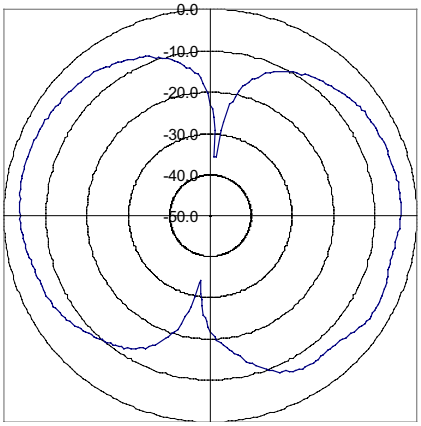
Ordering Information

- ANT-916-CW-HW

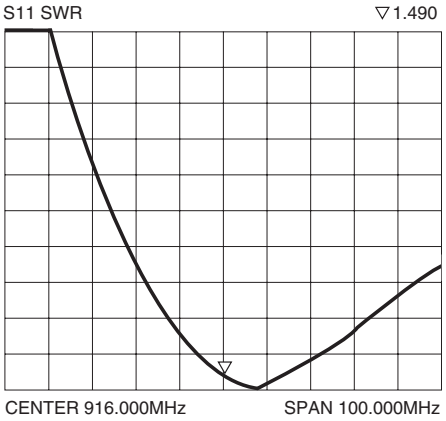
Polar Plots and VSWR Graph



Azimuth



Elevation



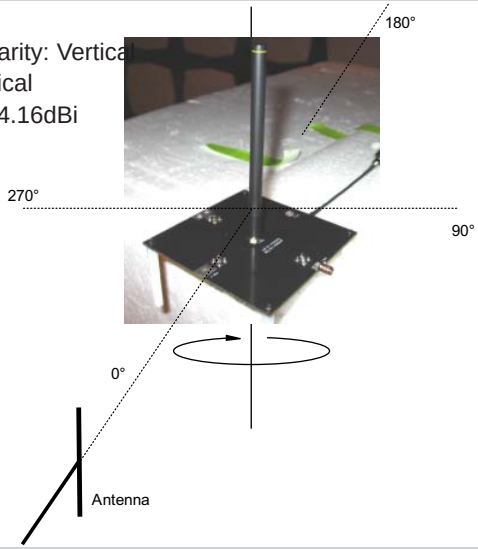
Typical VSWR

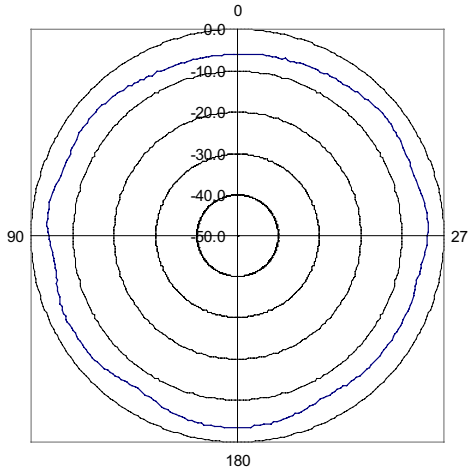
Antenna Factor 159 Ort Lane Merlin, OR 97532 **www.antennafactor.com**
541-956-0931 (phone) 541-471-6251 (fax)

Rev 05-03-06

Azimuth Radiation Pattern

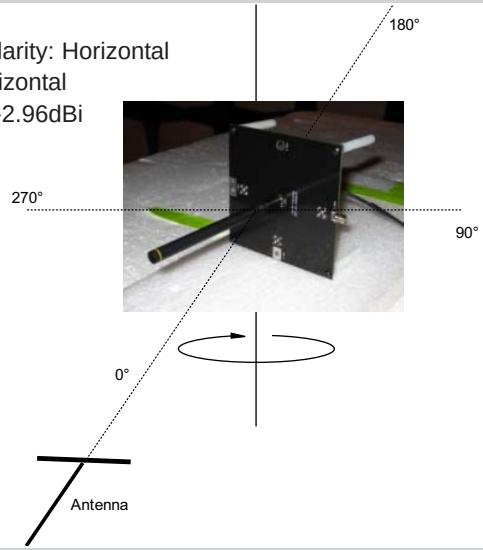
Measurement Antenna Polarity: Vertical
Test Antenna Polarity: Vertical
Maximum Absolute Gain: -4.16dBi

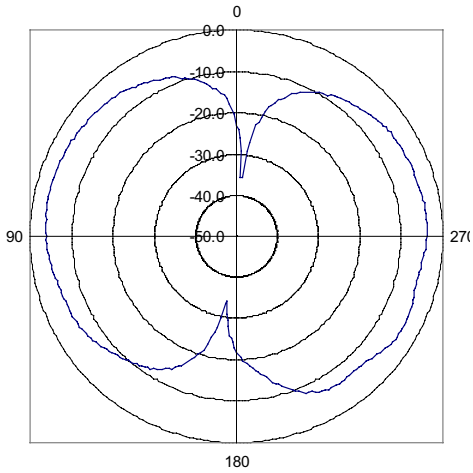




Elevation Radiation Pattern

Measurement Antenna Polarity: Horizontal
Test Antenna Polarity: Horizontal
Maximum Absolute Gain: -2.96dBi

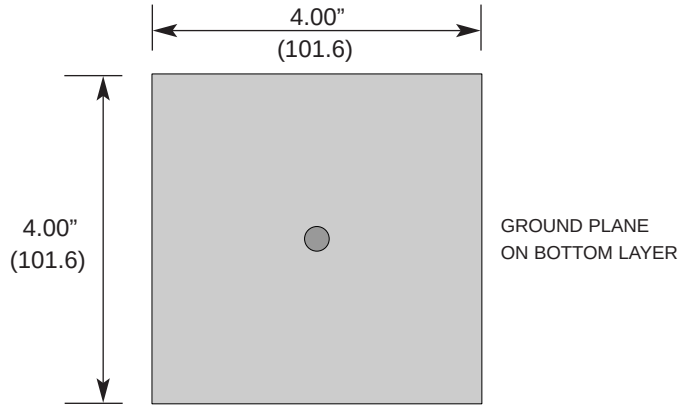




Antenna Test Fixture

ABOUT THIS TEST FIXTURE

The adjoining diagram shows the dimensions of the fixture on which the stated pattern and gain measurements were made. This does not mean that your product must conform to this size or antenna orientation, although it should be recognized that the gain, pattern, and performance may increase or decrease accordingly. Antenna Factor recognizes that our antennas are often used in compact applications with less than ideal ground planes. In some cases, the reference jig is smaller than optimum, particularly with lower-frequency antennas. This is, in part, to more accurately reflect the performance of the antenna in typical real-world applications.



Antenna Factor 159 Ort Lane Merlin, OR 97532 **www.antennafactor.com**
541-956-0931 (phone) 541-471-6251 (fax)