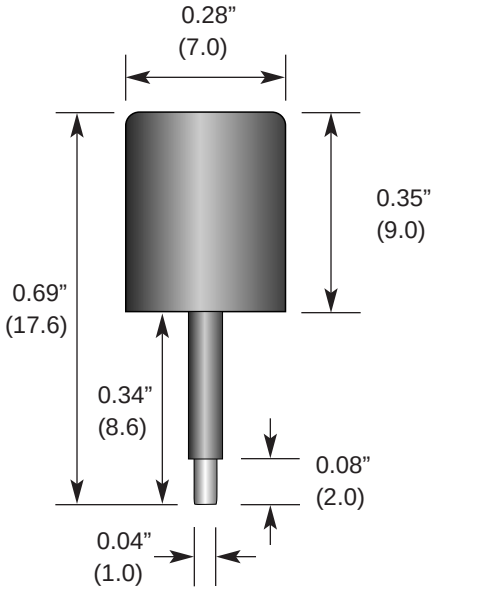
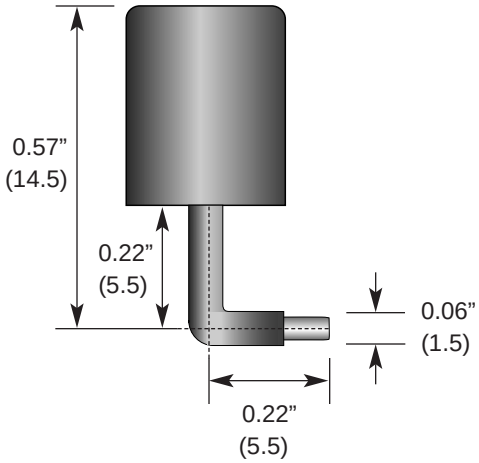
Product Dimensions





Description

The JJB Series packs near the performance of a conventional monopole into an incredibly compact quarter-inch (7mm) diameter package. These antennas are ideal for any OEM application requiring a compact, cosmetically-attractive, low-cost antenna solution. The antenna features a through-hole feedline that can attach directly to a user’s PCB. Internal or external mounting is possible.

Features

- Ultra-compact
- Very low cost
- Low VSWR
- Excellent performance
- Omni-directional pattern
- Easily concealed internally
- Suitable for internal or external applications
- Use with plastic* or metal enclosures

  * Requires proximity ground plane

Electrical Specifications

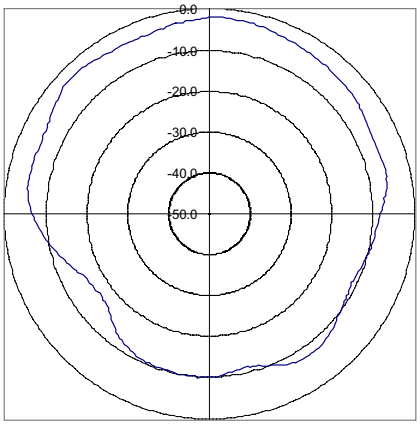
- Center Freq. 916MHz
- Bandwidth 30MHz
- Wavelength 1/4-wave
- VSWR <2.0 typ. at center
- Impedance 50 ohms
- Gain -2.16dBi
- Connection Direct solder

RA electrical specifications and plots measured on a 1.50” x 3.30” ground plane
ST electrical specifications and plots measured on a 3.50” x 3.50” ground plane

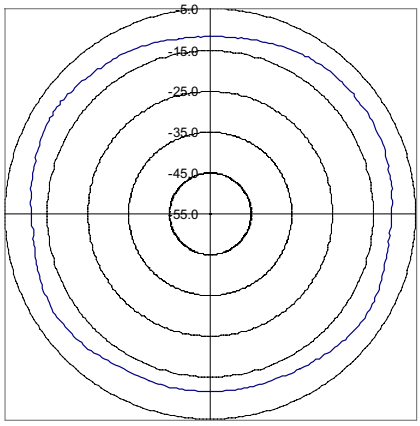
Ordering Information

- ANT-916-JJB-RA (Right-Angle)
- ANT-916-JJB-ST (Straight)

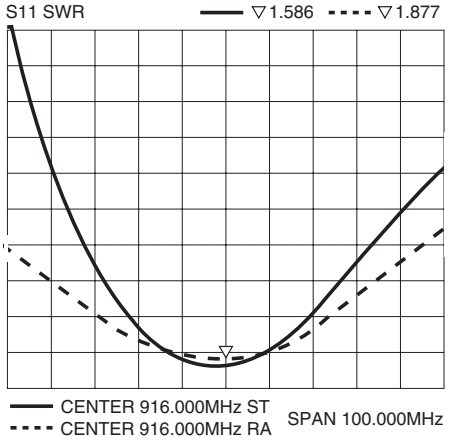
Polar Plots and VSWR Graph



Azimuth RA



Azimuth ST

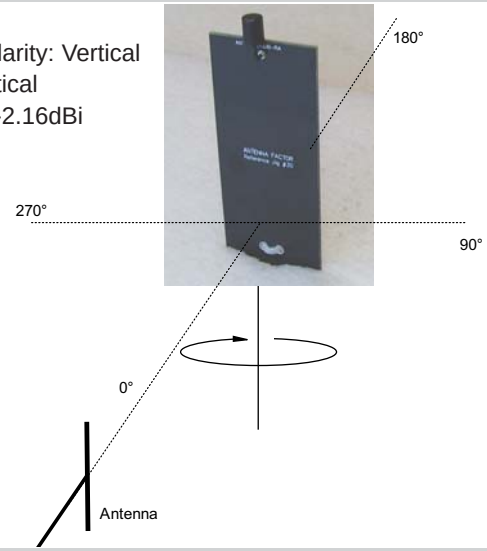


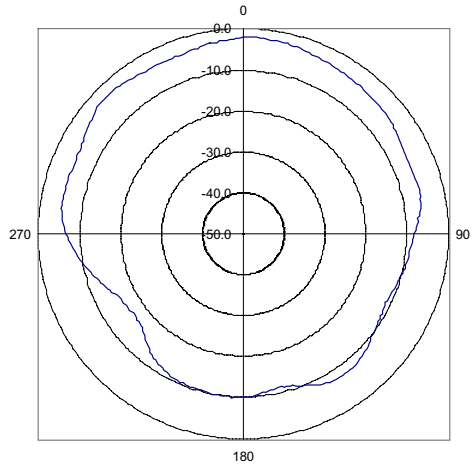
Typical VSWR

Antenna Factor 575 S.E. Ashley Place Grants Pass, OR 97526-3237 **www.antennafactor.com**
541-956-0931 (phone) 541-471-6251 (fax)

Azimuth Radiation Pattern Right Angle

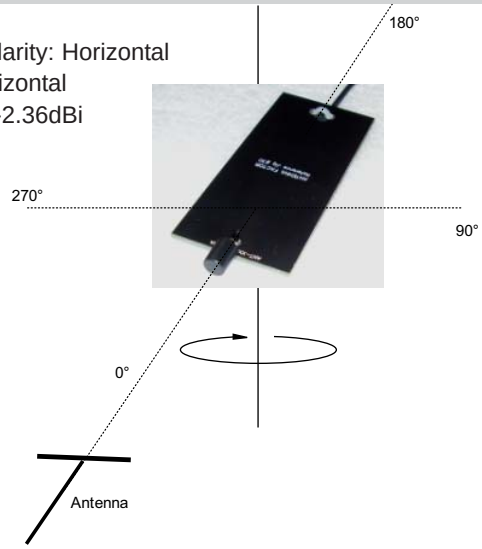
Measurement Antenna Polarity: Vertical
Test Antenna Polarity: Vertical
Maximum Absolute Gain: -2.16dBi

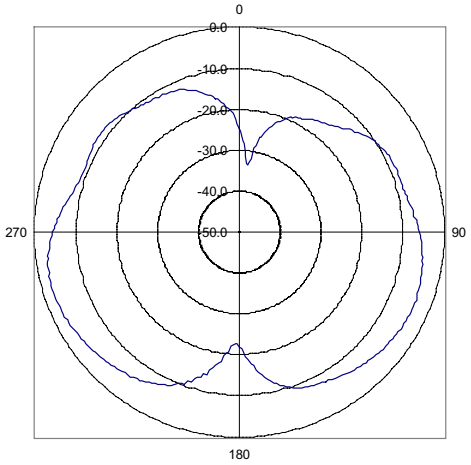




Elevation Radiation Pattern Right Angle

Measurement Antenna Polarity: Horizontal
Test Antenna Polarity: Horizontal
Maximum Absolute Gain: -2.36dBi



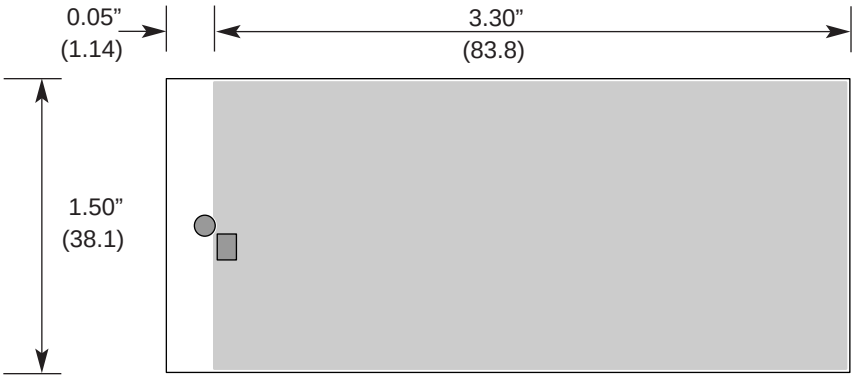


Antenna Test Fixture Right Angle

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.

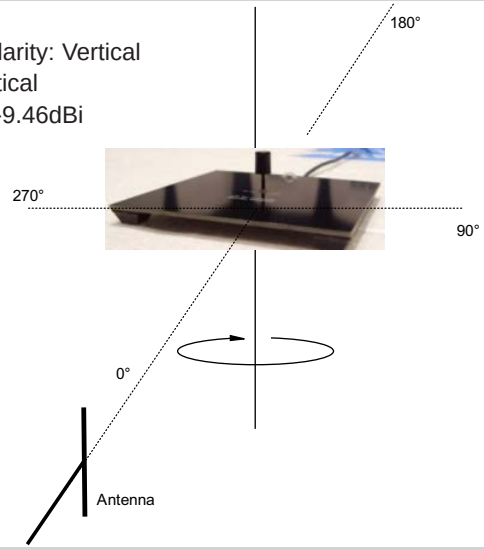
SHADED AREA INDICATES GROUND PLANE ON BOTTOM LAYER
NO GROUND PLANE OR COMPONENTS (EXCEPT ANTENNA) IN WHITE AREA

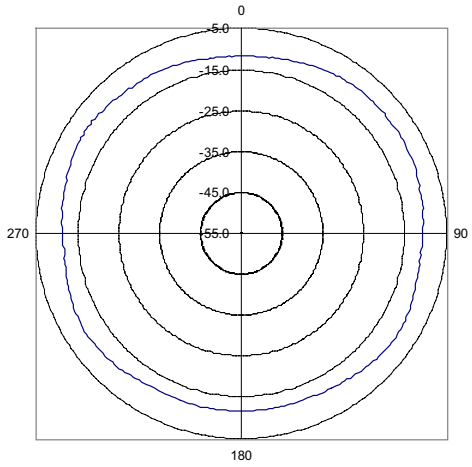


Antenna Factor 575 S.E. Ashley Place Grants Pass, OR 97526-3237 **www.antennafactor.com**
541-956-0931 (phone) 541-471-6251 (fax)

Azimuth Radiation Pattern Straight

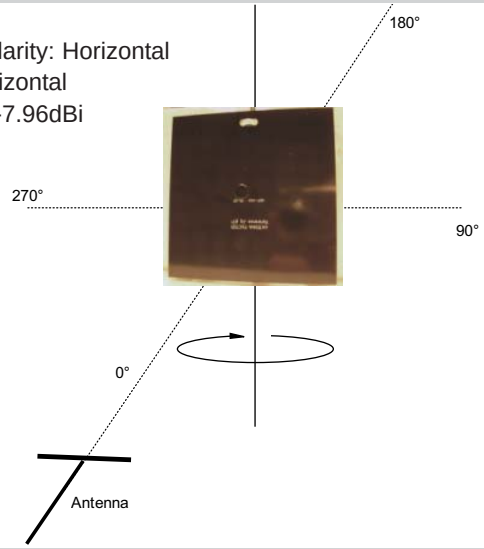
Measurement Antenna Polarity: Vertical
Test Antenna Polarity: Vertical
Maximum Absolute Gain: -9.46dBi

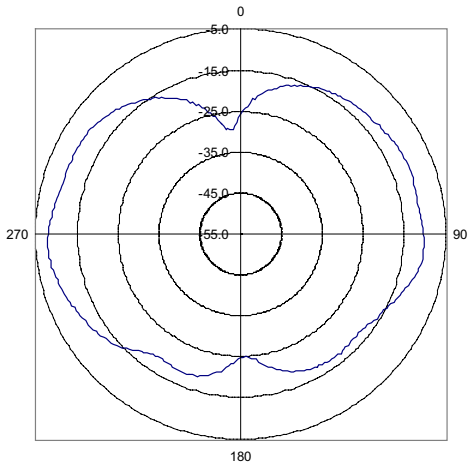




Elevation Radiation Pattern Straight

Measurement Antenna Polarity: Horizontal
Test Antenna Polarity: Horizontal
Maximum Absolute Gain: -7.96dBi





Antenna Test Fixture Straight

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.