

RF-ARMOTION-UTC

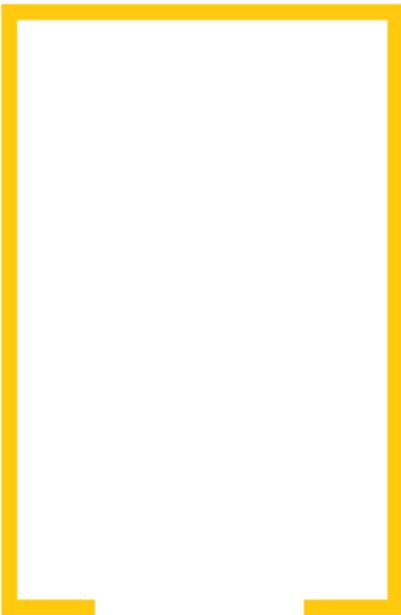
Antenna info

Overview:

- **Antenna description:**

The antenna is shaped in a rectangular form and used in a monopole arrangement. Antenna is permanently attached to the units. The antenna does not use reverse polarity connector.

Antenna Drawing



Antenna design/Simulation data:

Frequency 319.508 MHz

Length 4.9 inches

Diameter 0.085 inches

Capacitance 45.42 pF

Inductance 14.85 nH

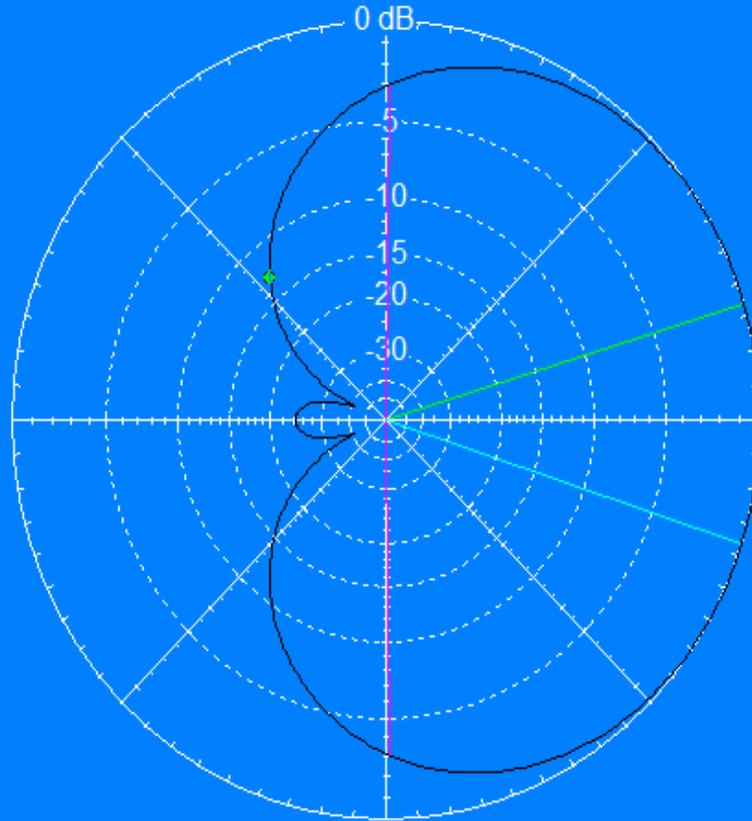
Quarter Wavelength 0.115 m

Antenna Length 75.10 %

Radiation Resistance 0.53 Ohms

Total Field

EZNEC Demo



319.508 MHz

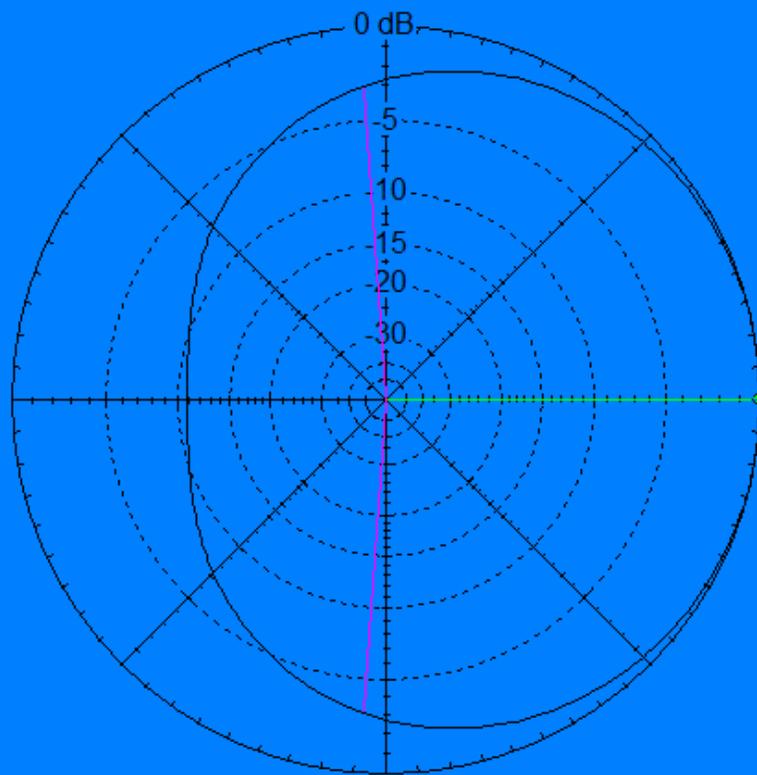
Azimuth Plot
Elevation Angle 0.0 deg.
Outer Ring 3.59 dBi

Cursor Az 131.0 deg.
Gain -9.34 dBi
-12.92 dBmax

Slice Max Gain 3.59 dBi @ Az Angle = 17.0 deg.
Front/Back 31.95 dB
Beamwidth 178.6 deg.; -3dB @ 270.7, 89.3 deg.
Sidelobe Gain 3.59 dBi @ Az Angle = 342.0 deg.
Front/Sidelobe 0.0 dB

Total Field

EZNEC Demo



319.508 MHz

Azimuth Plot
Elevation Angle 53.0 deg.
Outer Ring -4.7 dBref

Cursor Az 0.0 deg.
Gain -4.7 dBref
0.0 dBmax

Slice Max Gain -4.7 dBref @ Az Angle = 0.0 deg.
Front/Back 10.87 dB
Beamwidth 188.0 deg.; -3dB @ 266.0, 94.0 deg.
Sidelobe Gain < -100 dBi
Front/Sidelobe > 100 dB