

RF-GB-319-UTC

Antenna info

Overview:

- **Antenna description:**

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



Antenna design:

Frequency 319.508 MHz

Length 4.6 inches

Capacitance 15.42 pF

Inductance 29.65 nH

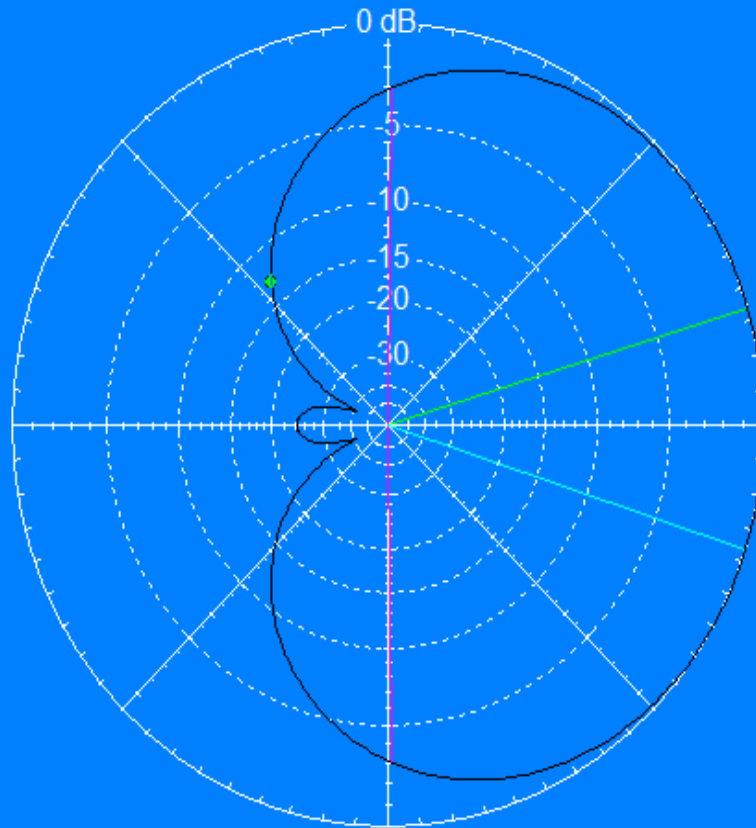
Quarter Wavelength 0.0185 m

Antenna Length 83.10 %

Radiation Resistance 0.53 Ohms

Total Field

EZNEC Demo



319.508 MHz

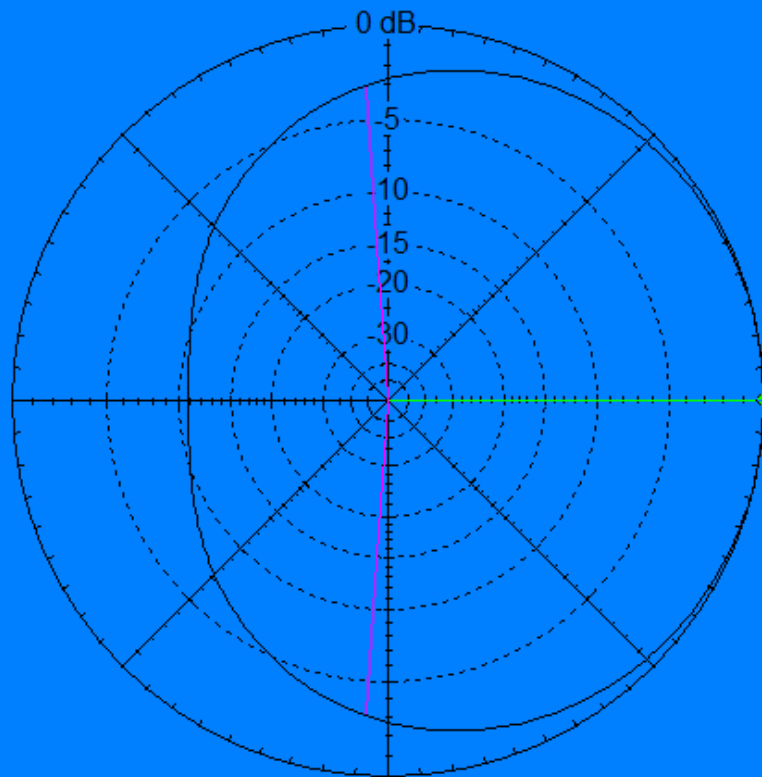
Azimuth Plot
Elevation Angle 0.0 deg.
Outer Ring 3.59 dBi

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