RF-CMDWS-319

Antenna info

Overview:

• Antenna description:

The antenna is shaped in a rectangular form and used in a monopole arrangement.

Power:

• Unit is powered by a 3V CR2032 lithium battery.

Antenna design:

Frequency 319.508 MHz

Length 4.5 inches

Diameter 0.065 inches

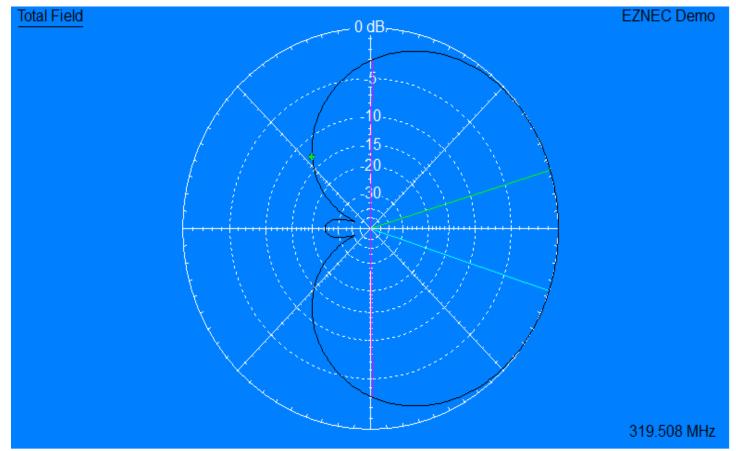
Capacitance 8.114 pF

Inductance 17.719 nH

Quarter Wavelength 0.115 m

Antenna Length 65.10 %

Radiation Resistance 0.00 Ohms



Azimuth Plot Elevation Angle 0.0 deg. Outer Ring 3.59 dBi

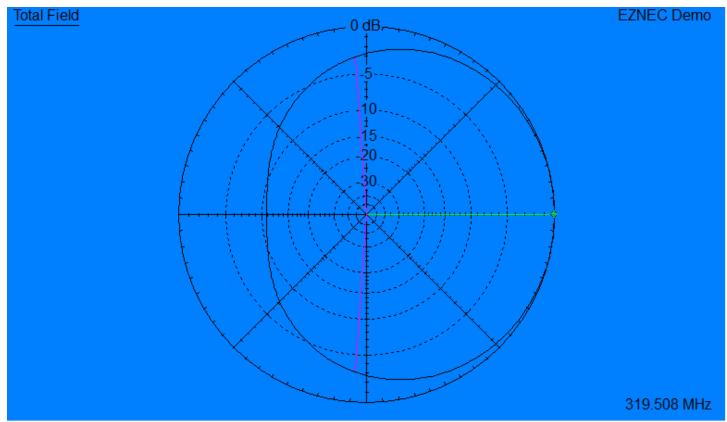
Slice Max Gain 3.59 dBi @ Az Angle = 17.0 deg.

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

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



Azimuth Plot

Elevation Angle 53.0 deg. -4.7 dBref Outer Ring

Slice Max Gain -4.7 dBref @ Az Angle = 0.0 deg.

10.87 dB Front/Back

Beamwidth 188.0 deg.; -3dB @ 266.0, 94.0 deg.
Sidelobe Gain <-100 dBi
Front/Sidelobe > 100 dB

0.0 deg. -4.7 dBref 0.0 dBmax Cursor Az Gain