RF-ROR-433

Antenna info

Overview:

- **Antenna description:**

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

Power:

- Unit is powered by a 3V CR123A lithium battery.

Antenna design:

Frequency 433.912 MHz

Length 5.4 inches

Diameter 0.085 inches

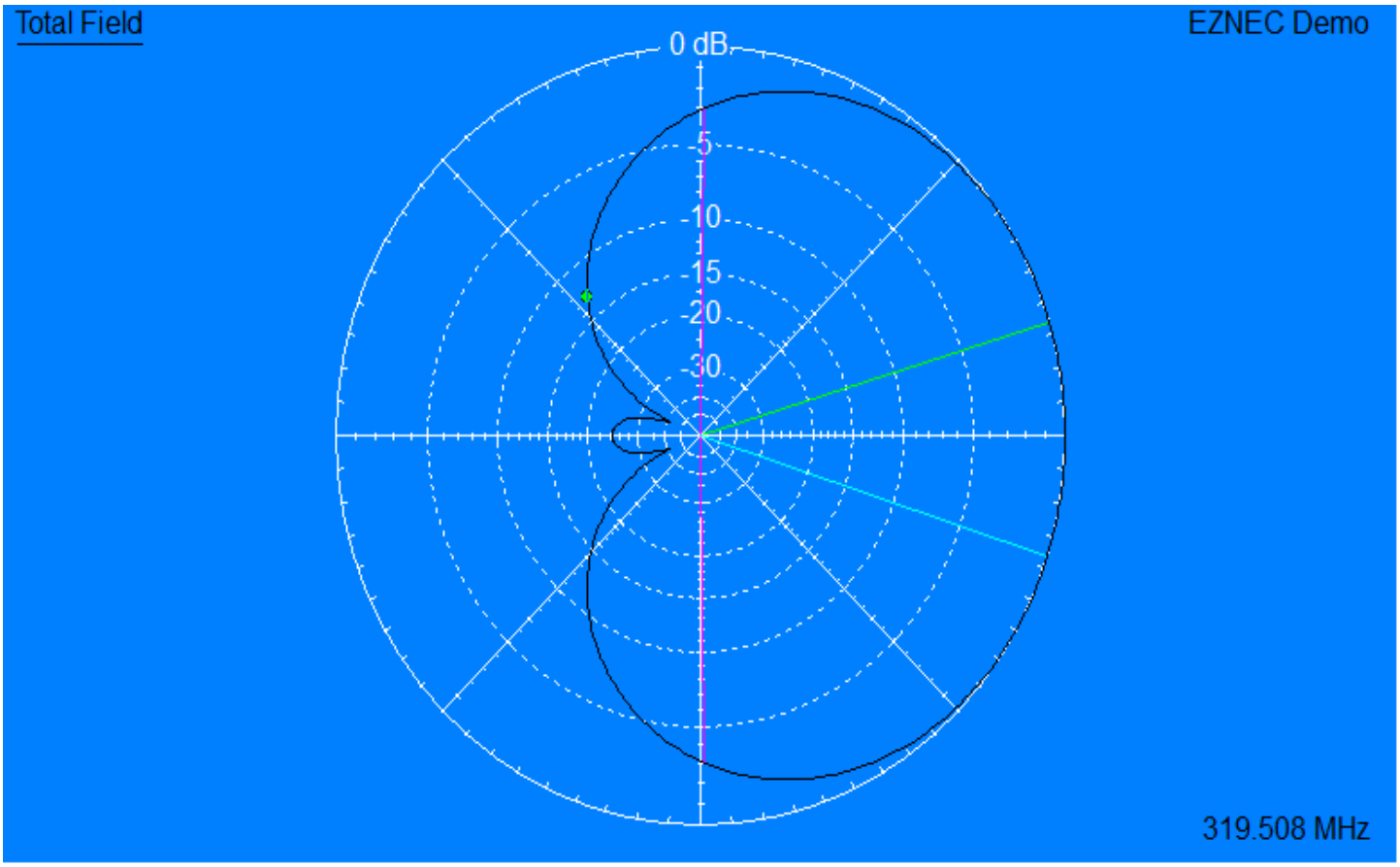
Capacitance 15.42 pF

Inductance 34.85 nH

Quarter Wavelength 0.115 m

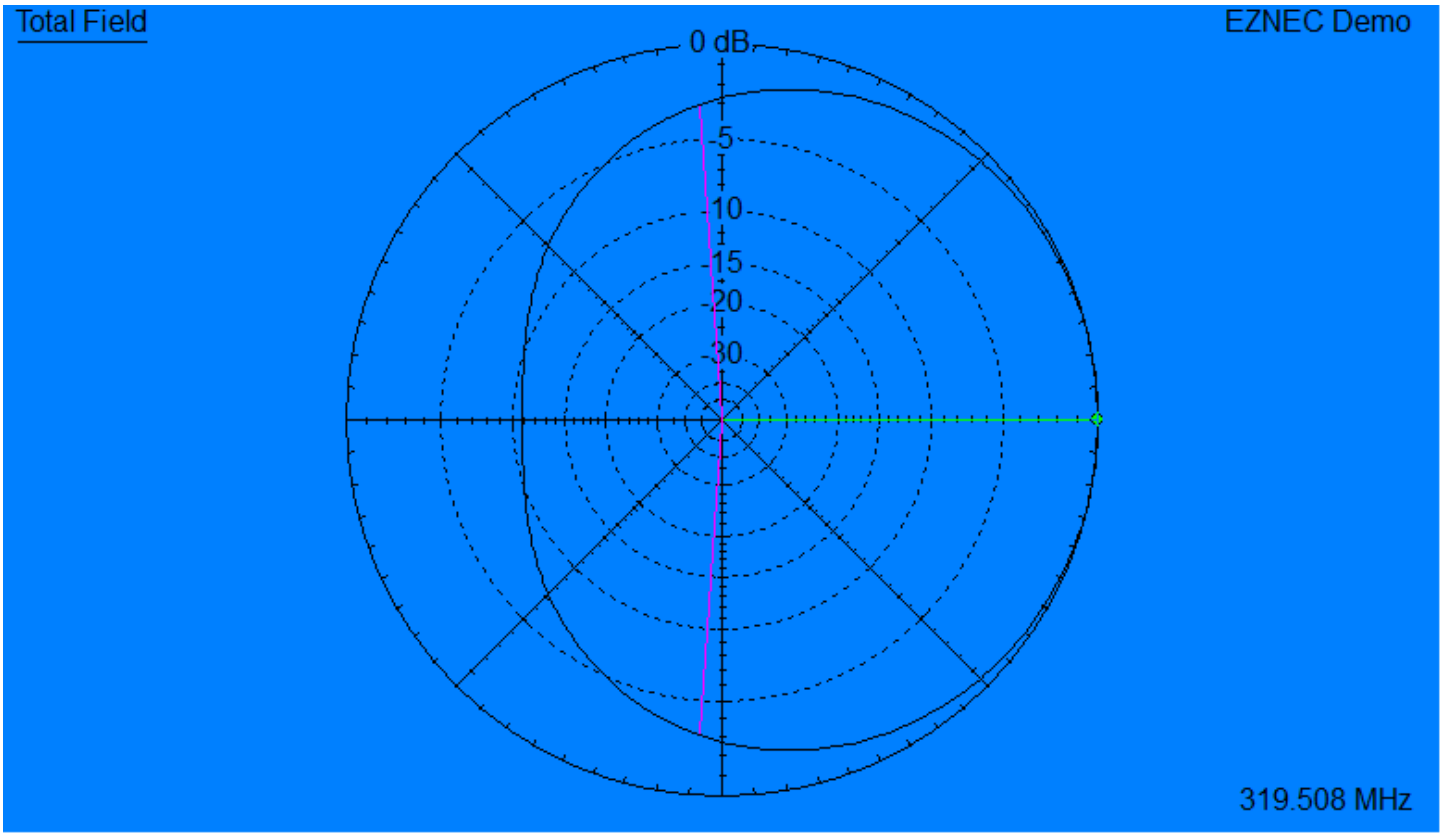
Antenna Length 75.10 %

Radiation Resistance 0.53 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.
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