# **RF-FOB-319**

## Antenna info

### **Overview:**

### • Antenna description:

The antenna is a PCB antenna. Shaped in a circular 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

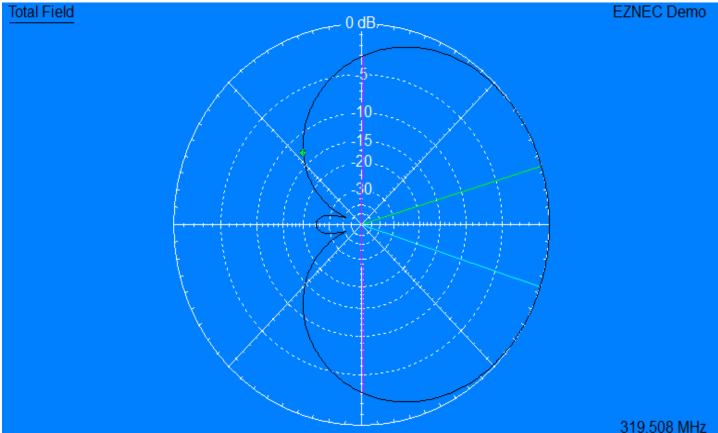
Capacitance 8.114 pF

Inductance 17.719 nH

Quarter Wavelength 0.115 m

Antenna Length 65.10 %

Radiation Resistance 0.00 Ohms



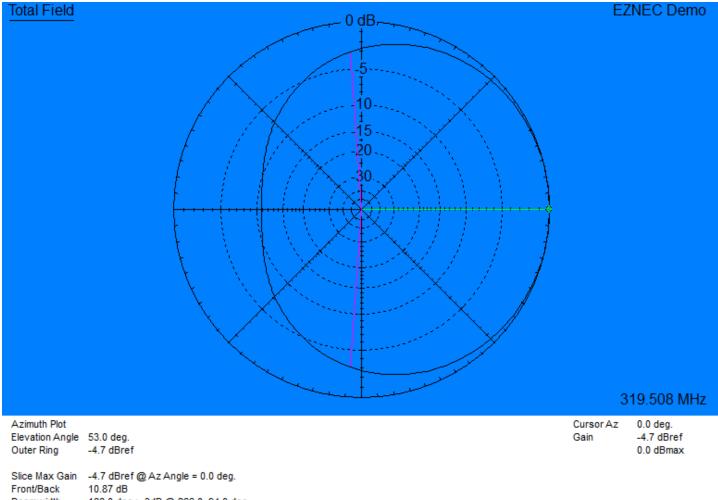
- 31	19.5	508	Mł	ΗZ
-				

Azimuth Plot Elevation Angle 0.0 deg. 3.59 dBi Outer Ring

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. -9.34 dBi -12.92 dBmax

Gain



Front/Back	10.87 dB
Beamwidth	188.0 deg.; -3dB @ 266.0, 94.0 deg.
Sidelobe Gain	< -100 dBi
Front/Sidelobe	> 100 dB