

# QS5130-840

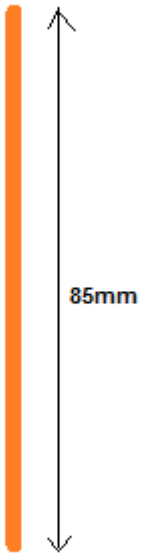
## Antenna info

### Overview:

- **Antenna description:**

The antenna is a piece of wire and used in a monopole arrangement. The Antenna is permanently attached to the PCBA. The Antenna does not use a reverse polarity connector.

### Antenna Drawing



### Antenna design/Simulation data:

Frequency 319.508 MHz

Length 85mm

Diameter 0.085 inches

Capacitance 45.42 pF

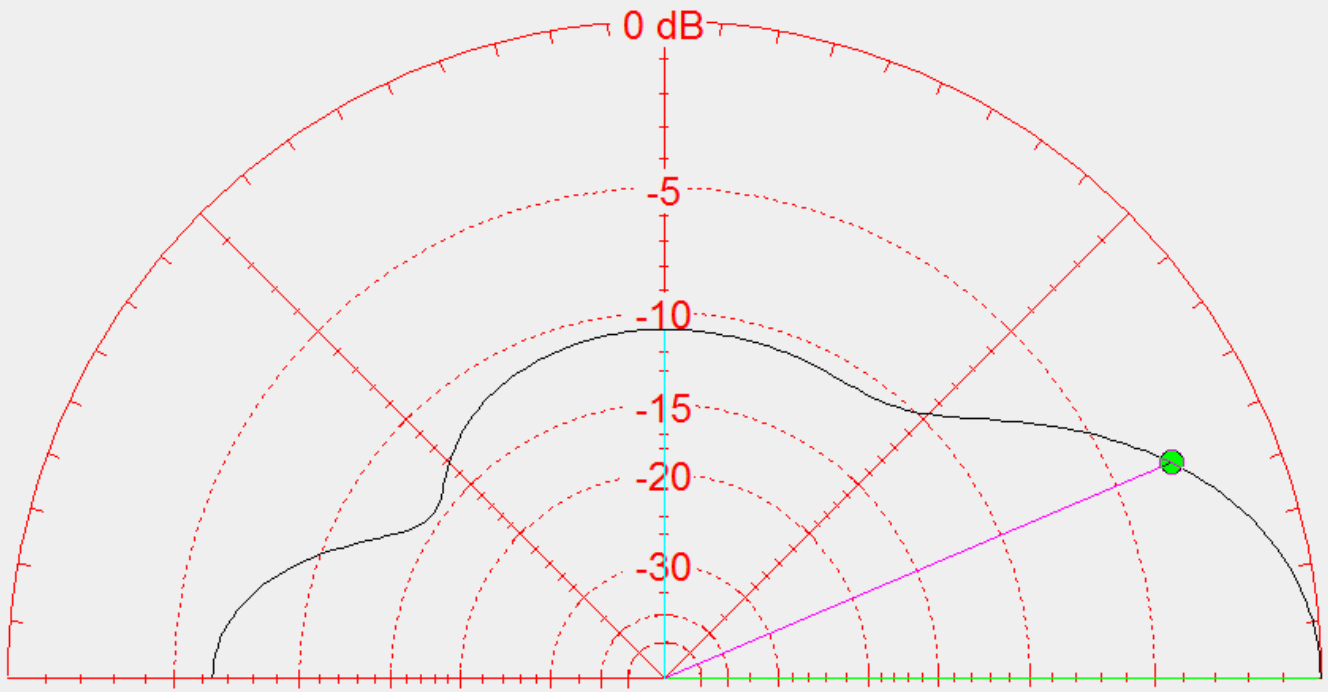
Inductance 14.85 nH

Quarter Wavelength 0.115 m

Antenna Gain 2.35dBi

Radiation Resistance 0.53 Ohms

Antenna Gain 2.35dBi



**319.508 MHz**

Elevation Plot

Azimuth Angle 0.0 deg.  
Outer Ring 5.34 dBi

Cursor Elev 23.0 deg.  
Gain 2.35 dBi  
-2.99 dBmax

Slice Max Gain 5.34 dBi @ Elev Angle = 0.0 deg.  
Beamwidth ?; -3dB @ 23.0 deg.  
Sidelobe Gain -5.51 dBi @ Elev Angle = 90.0 deg.  
Front/Sidelobe 10.85 dB