



Horizontal Log Periodic

02-1016 | 20kW | 4-30MHz

01

Data Sheet

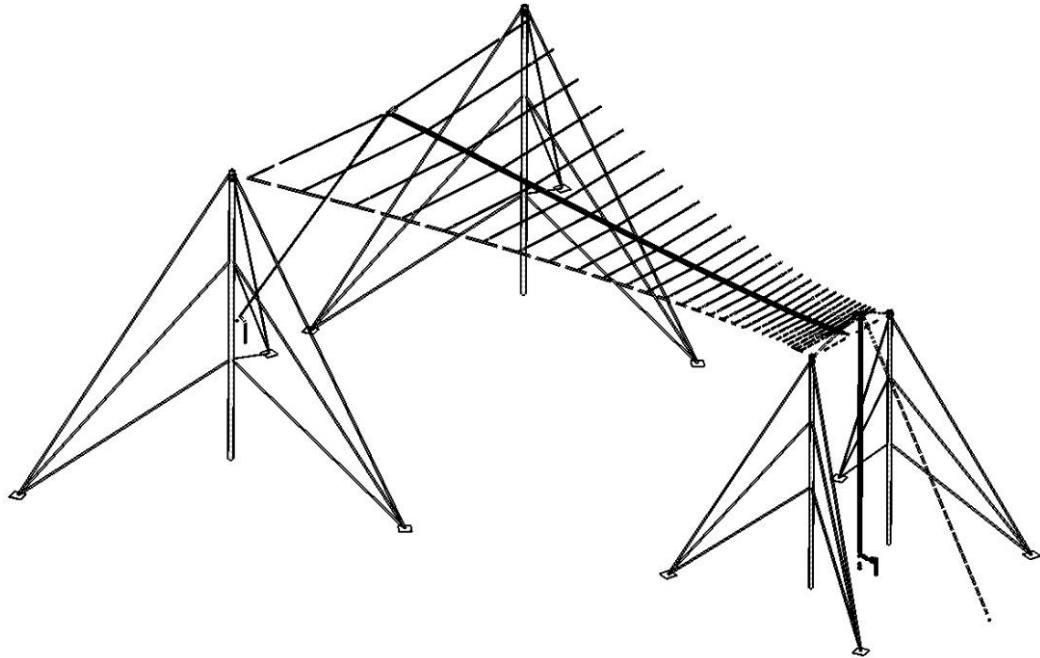


Figure 1 – 02-1016 Installed Antenna

The Lencom® 02-1016 is a single-layer, horizontal, log periodic antenna designed specifically for targeted communications.

With up to 20kW average power, low take-off angle and up to 12dbi directional gain, it is perfect for medium to long (>5000km) communication.

The 02-1016 is well suited to either stand-alone operation, or as part of a rosette for omnidirectional coverage.

Options are available for either hard drawn copper (higher gain) or stainless steel (longer life) elements.

Horizontal Log Periodic

02-1016 | 20kW | 4-30MHz

01

Data Sheet

Key Characteristics

<i>Frequency range</i>	4-30MHz
<i>Power rating</i>	1-20kW average
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	<2:1 (typical)
<i>Isotropic gain</i>	12dbi (typical)
<i>Azimuth Beamwidth</i>	60 degrees (typical)
<i>Radiation pattern</i>	Refer radiation plot
<i>Input Balun</i>	Up to 20kW 50/150
<i>RF connector type</i>	3 1/8" EIA
<i>Wind rating</i>	320km/h (no ice)
<i>Mast requirement</i>	33m rear, 15m front

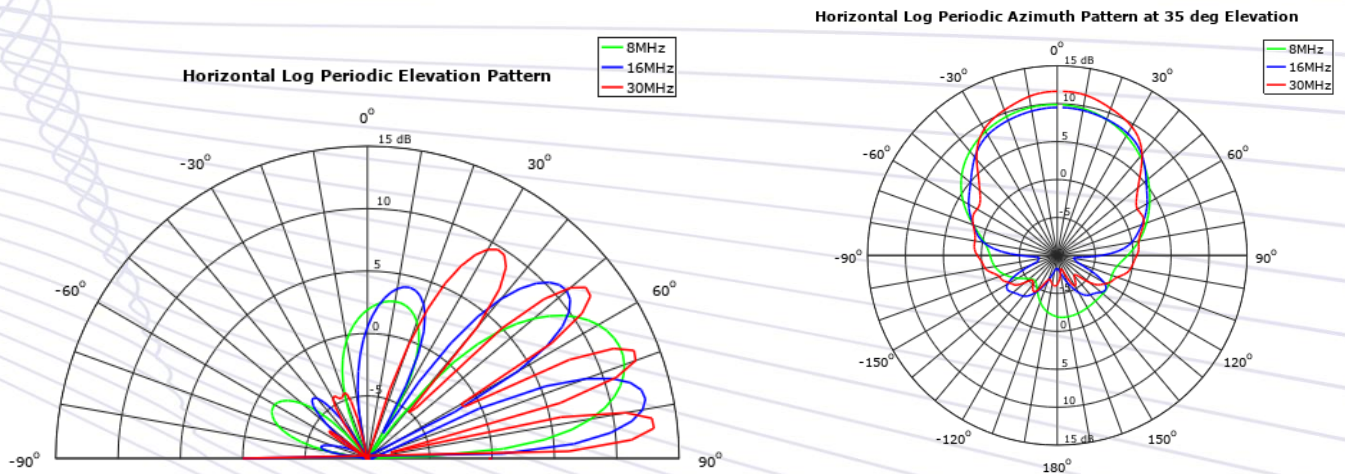


Figure 2 – Radiation Patterns
 Modelled above perfect earth; Azimuth slice taken at an elevation of 35degrees from horizon;
 Elevation slice taken at an azimuth angle of 90degrees from broadside