



Horizontal Log Periodic

02-1016 | 20kW | 4-30MHz

01

Data Sheet

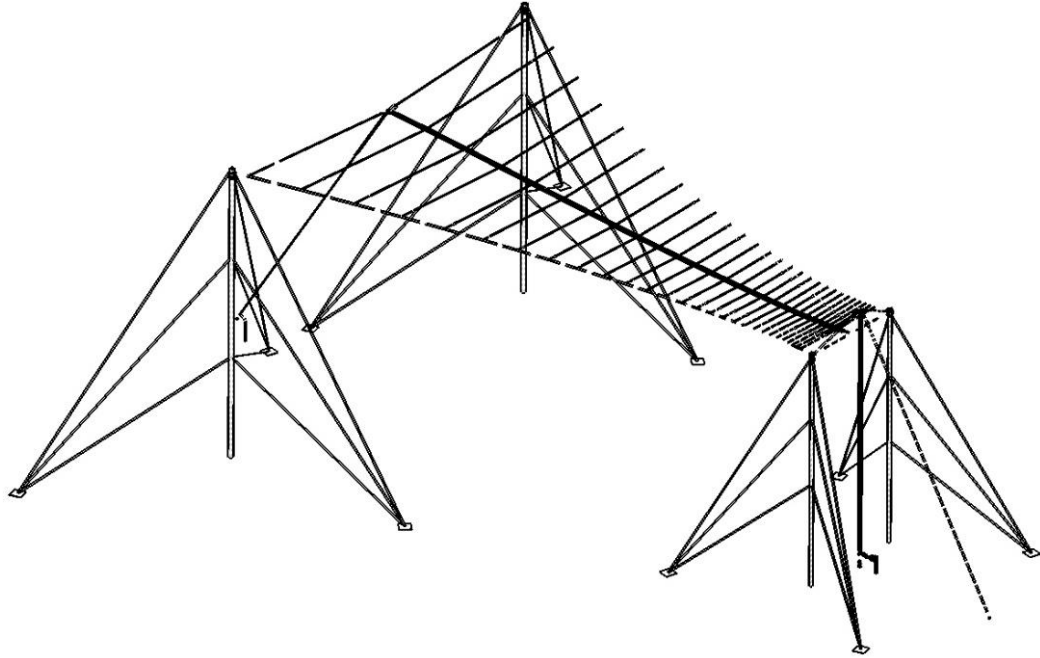


Figure 1 – 02-1016 Installed Antenna

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.

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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 |

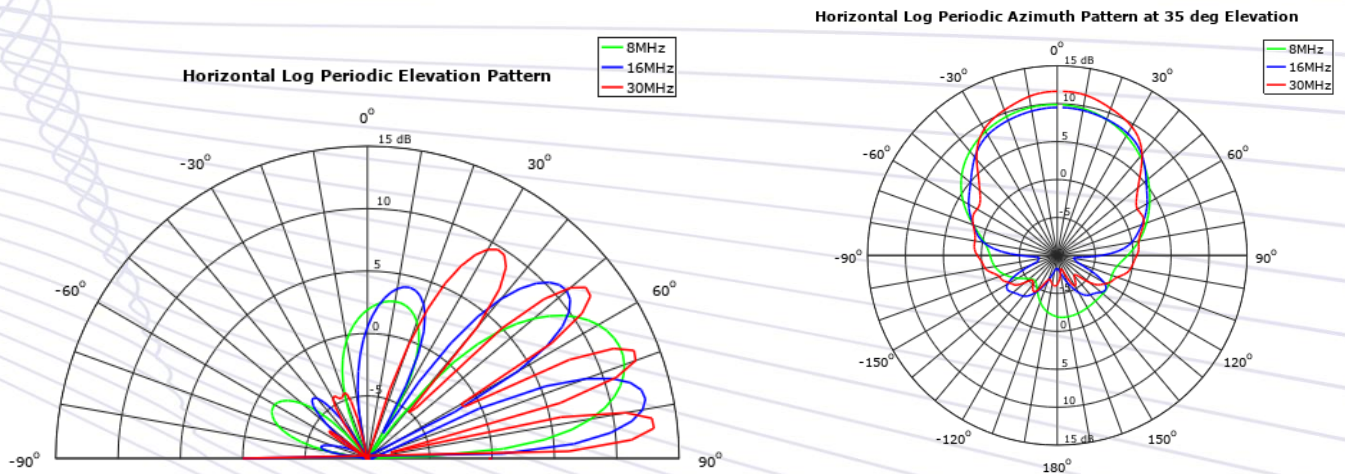


Figure 2 – Radiation Patterns
 Modelled above perfect earth; Azimuth slice taken at an elevation of 35degrees from horizon;
 Elevation slice taken at an azimuth angle of 90degrees from broadside