



# HORIZONTAL LOG PERIODIC DUAL LAYER

02-1004 | 20kW 6-30MHz

Data Sheet

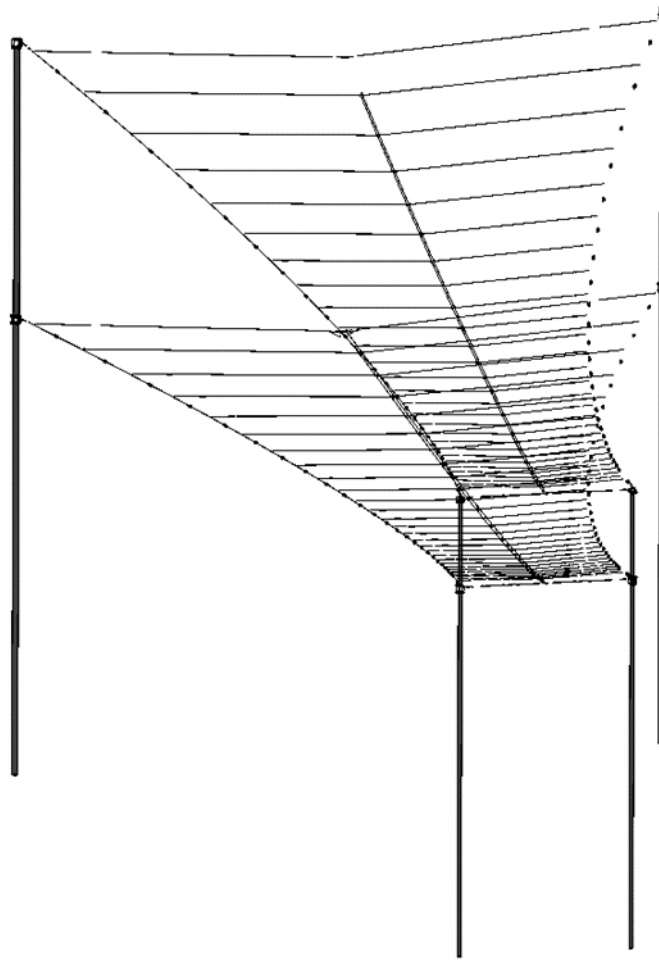


Figure 1 – 02-1004 Installed Antenna

The Lencom® 02-1004 is a dual-layer, horizontal, log periodic antenna designed specifically for targeted communications.

With up to 20kW average power, low take-off angle and up to 16dbi directional gain, it is perfect for medium to long (>5000km) communication. The dual layer design adds significantly to the directional gain.

The 02-1004 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<sup>1</sup>

<i>Frequency range</i>	6-30MHz
<i>Power rating</i>	20kW average
<i>Input impedance</i>	50Ω
<i>VSWR over range</i>	<2:1 (typical)
<i>Isotropic gain</i>	13-16dbi (typical)
<i>Azimuth Beamwidth</i>	70 degrees (typical)
<i>Radiation pattern</i>	Refer radiation plot
<i>Input Balun</i>	30kW 50/150
<i>RF connector type</i>	3 1/8" EIA
<i>Wind rating</i>	240km/h (no ice)
<i>Mast requirement</i>	44m

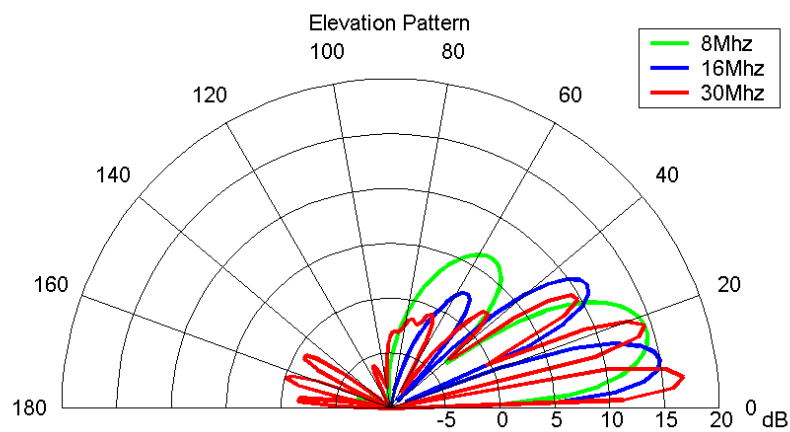


Figure 2 – Radiation Pattern

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

<sup>1</sup> Specifications subject to change without notice