



Vertical Log Periodic (VLP)

02-00540-90

01

Data Sheet

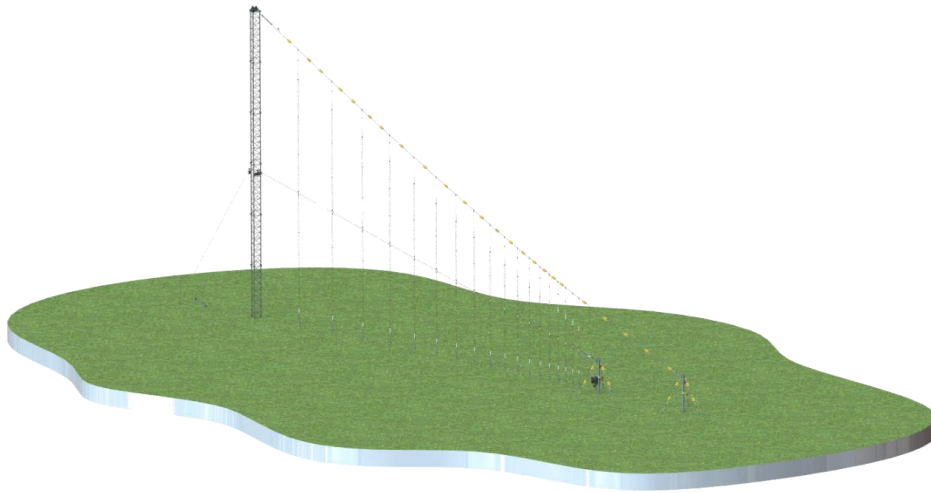


Figure 1 – Vertical Log Periodic (VLP) Individual

The Lencom® Vertical Log Periodic (VLP) antenna range includes a selection of antennas able to cover frequencies across the HF band.

Designed specifically for radar operation or targeted communications.

The Lencom VLP is designed so that it can be used as both a standalone antenna or as part of a complete array.

Product Information

The Lencom® Vertical Log Periodic (VLP) antenna range represents a unique design that is specifically optimised for radar performance.

The antennas contain custom dipole elements using hard drawn copper wire for maximum gain and to allow for transmit power of up to 40kW.

Gain is typically around 14dBi with a VSWR maximum of 1.5:1 across the chosen band.

The installed antenna requires a dedicated ground plane.

Lencom is experienced in both single antenna and full array layouts, site design and installation.

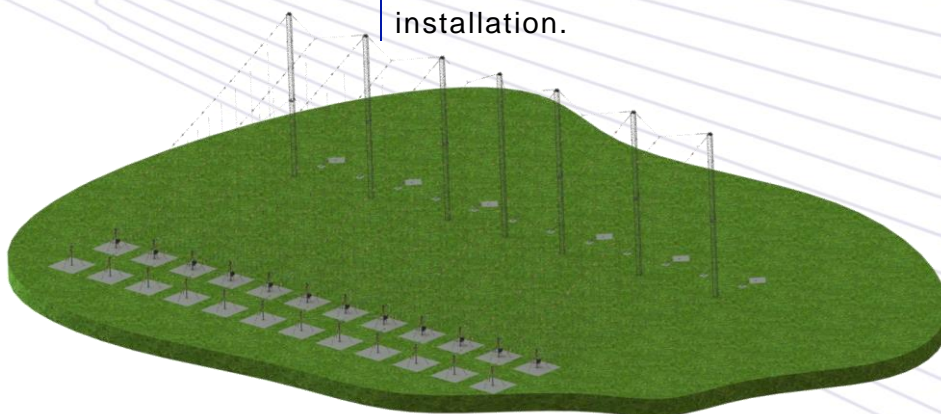


Figure 2 – Vertical Log Periodic (VLP) Array



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Key Characteristics

Frequency range	Customer specified within HF Band
Power Rating	Up to 40kW average
Input impedance	50Ω
VSWR over range	<1.5:1 (typical)
Gain	12-14dBi (single antenna)
Radiation pattern	Refer radiation plot (single antenna)
Input Balun	Up to 40kW (Common mode load capability optional)
Wind rating	240km/h (no ice)
RF connector type	Typically 3-1/8" EIA Flange (subject to power)
Ground Mat Requirement	Size and type subject to frequency range
Mast requirements	Dependent on frequency range

Radiation Pattern

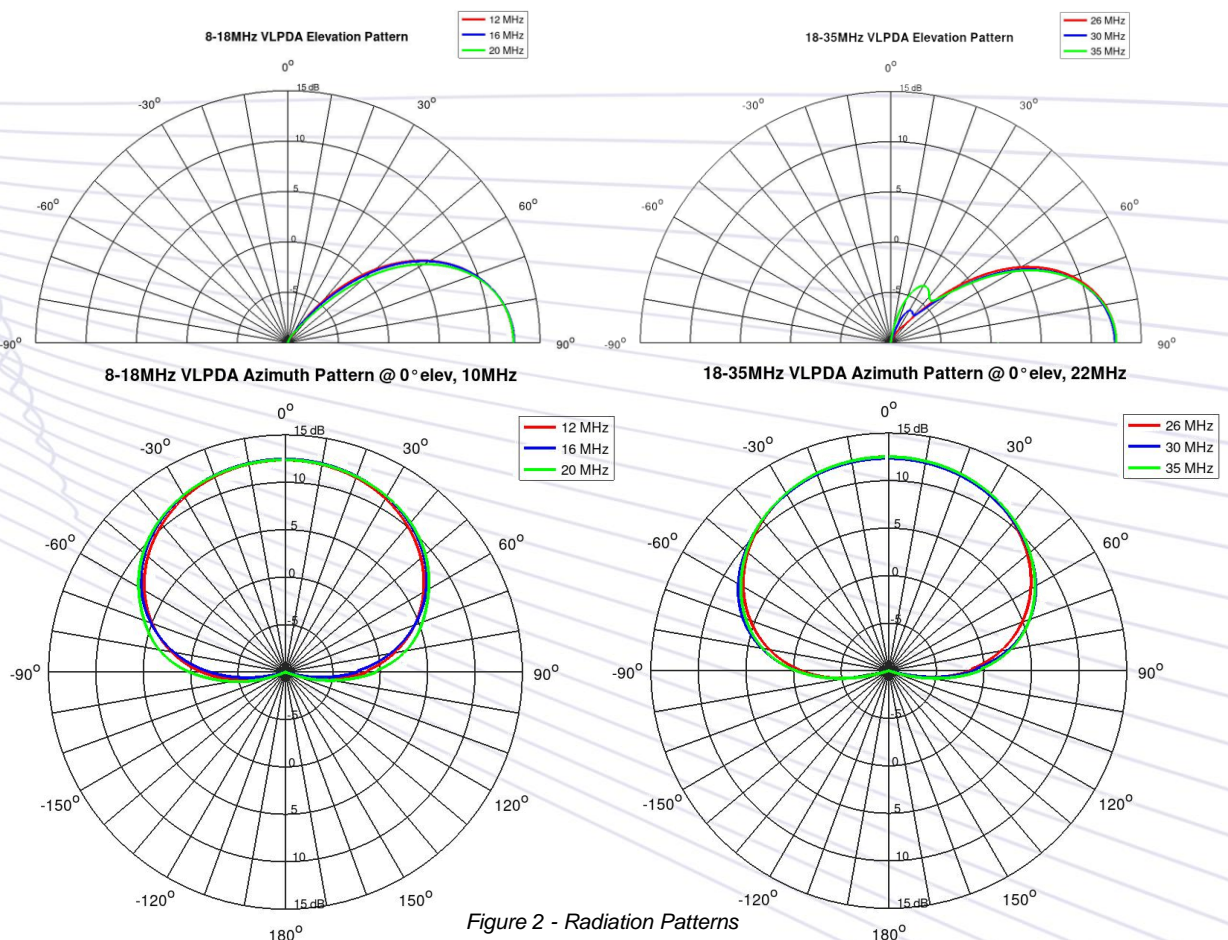


Figure 2 - Radiation Patterns

Modelled above perfect earth; Azimuth slice taken at an elevation of 0° from horizon;
Elevation slice taken at an azimuth angle of 0°