



Bi-Conical Monopole

02-00470 | 1-20kW | 2 - 30MHz

02

Data Sheet

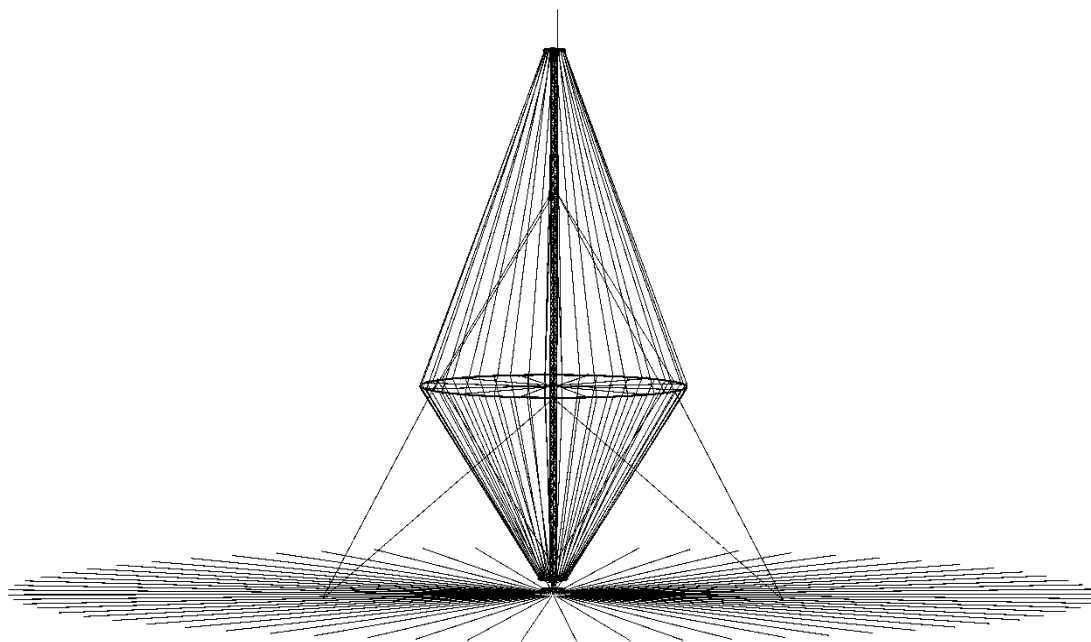


Figure 1 – 02-00470 Installed Antenna

The Lencom® 02-00470 Broadband Monopole antenna has been designed for fixed station, multi-frequency operation, and covers the entire frequency range of 2–30 MHz with a power rating of up to 20Kw average.

The conical nature of the radiating elements provides outstanding efficiency over the entire HF spectrum.

The antenna displays an omni-directional radiation pattern, allowing for all round communications.

The antenna is supplied with the wire work in a ready-to-be-assembled state. Except for the mast, all the necessary equipment is to be found in the kit.

The maximum VSWR is typically less than 2:1 over the entire band.

No antenna tuner is required.

The antenna elements are constructed of stranded, stainless-steel wire rope for long life and resistance to kinking.

Lencom Antenna can supply suitable masts for the 02-00470.

Key Characteristics¹

Frequency range	2 - 30MHz
Power rating	1 - 20kW average
Input impedance	50Ω
VSWR over range	<2:1 (typical)
Isotropic gain	8dbi absolute maximum 6dbi average maximum across elevations 4dbi typical
Radiation pattern	Refer radiation plot
Input Balun	No Balun Required
RF connector type	Various depending on power rating.
Wind rating	230km/h (no ice)
Mast requirement	34m
Earth mat radius	38m

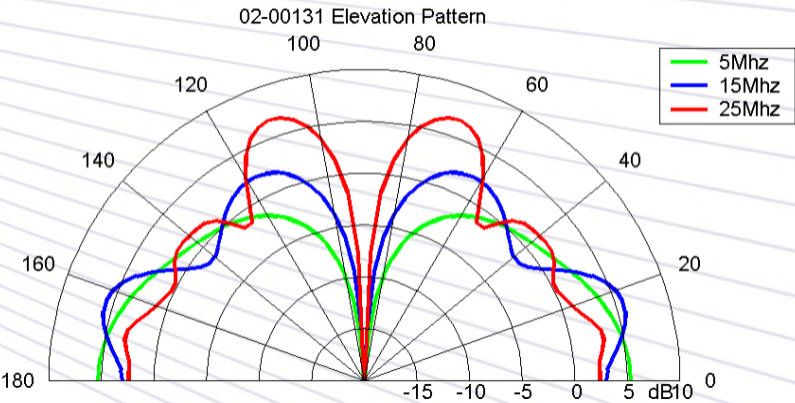


Figure 2 – Radiation Pattern

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

¹ Specifications subject to change without notice