



RESONANT DIPOLE

02-00251-09 | 1kW Single Frequency

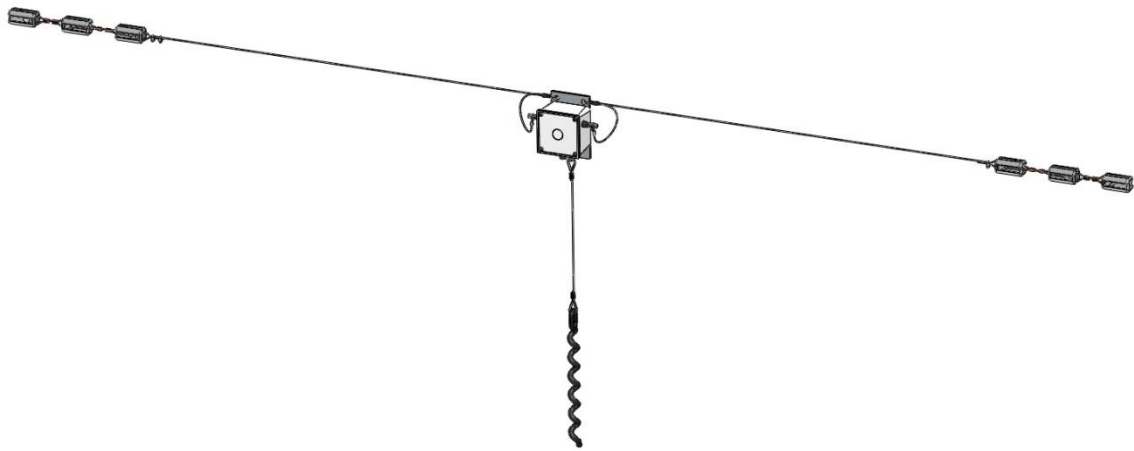


Figure 1 – 02-00251-09 Installed Antenna

The Lencom® 02-00251-09 1kW Resonant Dipole has been designed for fixed station, single-frequency operation.

A resonant dipole is one of the most efficient antennas available as it is perfectly sized to the required frequency.

The antenna can be installed in either a horizontal (using two masts) or inverted-V (using a single mast) formation.

The antenna displays an omnidirectional radiation pattern, allowing for all round communication.

The antenna is fed at the antenna base via an N-type connector and a strain relief is supplied to accommodate heavy coaxial cable.

The antenna is supplied with the wirework 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 1.5:1.

No antenna tuner is required.

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

Lencom can supply masts suitable for the 02-00251-09.

Key Characteristics¹

Frequency range	Specified Single Frequency between 2 and 30MHz
Power rating	1kW average
Input impedance	50Ω
VSWR over range	<1.5:1 (typical)
Isotropic gain	7.5dbi (max)
Radiation pattern	Refer radiation plot
RF connector type	N-type
Wind rating	230km/h (no ice)
Space requirement	Subject
Mast requirement	Preferably > 10m

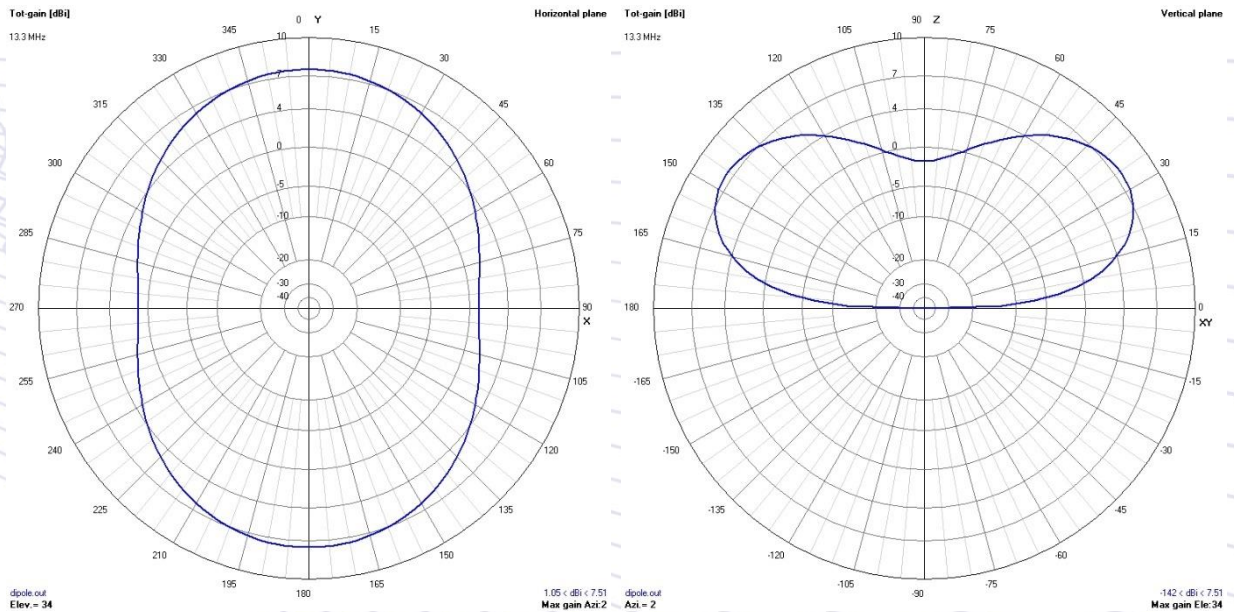


Figure 2 – Radiation Pattern
 Modelled above perfect earth at 13.3MHz; Azimuth slice taken at an elevation of 34 degrees from horizon;
 Elevation slice taken at an azimuth angle of 90degrees from broadside

¹ Specifications subject to change without notice