

Installation

CD17-27-50 Mopole™ Antennas

For 70-77 MHz range please see separate instruction sheet for CD17-26-50 Series

77-85 MHz

The CD17-27-50 Series is a range of ground independent Mopole™ antennas. The base section is a high impedance matching transformer which is used to allow end feeding of an electrical half wave element. The element is a tapered 17-7PH stainless steel whip. The antenna is supplied with an MBC base.

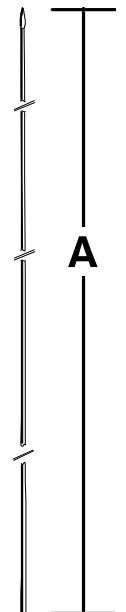
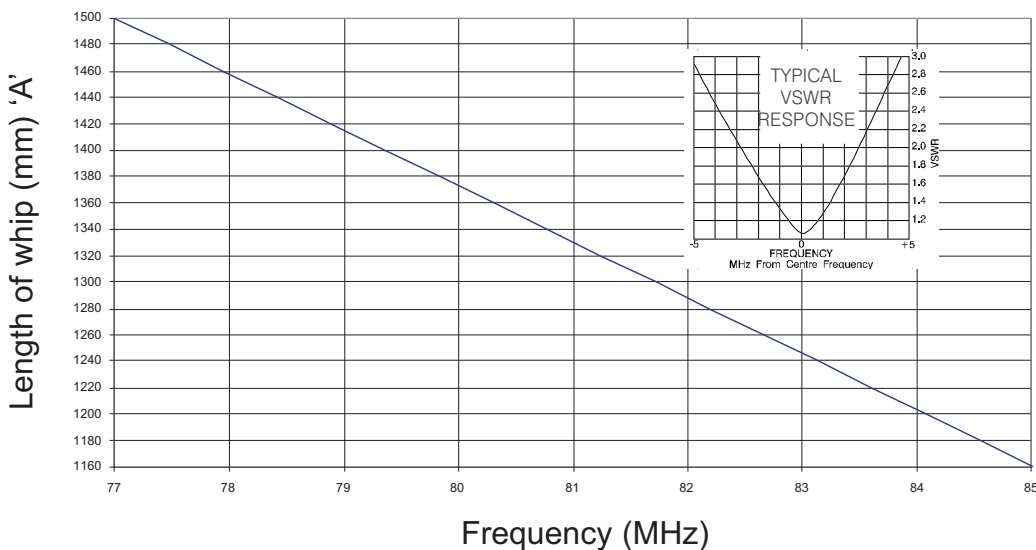
When choosing a mounting location try to ensure that the whole of the antenna, and in particular the whip top itself, is as high as possible and as far away as practical from metallic obstructions (e.g. roof racks or vehicle pillars) to avoid reflection or shadowing of the signal. When mounted in a vertical position well removed from such obstructions the antenna will provide excellent omnidirectional performance.

Note: Although the CD17 Series are "ground independent" in that they do not require a full ground plane, these antennas must still be earthed e.g. by mounting to a gutter or mirror bar mount. The CD17 Series is a compressed or "loaded" half wave antenna and if not earthed, the coaxial feeder may tend to act as a component of the antenna. Earthing the antenna at its mounting point isolates the radiating element of the antenna from it's coaxial feeder and ensures trouble free performance.

Termination and Tuning Instructions

1. Attach the MBC base assembly to the desired mounting surface (after terminating the base if your MBC has not been supplied with cable already fitted).
2. Screw the antenna coil section to the MBC base.
3. Trim the whip top to its frequency using an in-line meter. The chart below serves as an accurate guide, though we strongly recommend all installations be checked for VSWR using an in-line meter.

Cutting Chart



SPECIFICATIONS

Frequency Range: 77-85 MHz	Polarization: Vertical
Tuned Bandwidth: 3 MHz @ <1.5:1 VSWR	Termination: MBC base
Power Rating: 50 Watts	Operating Temperature: -10°C to 85°C
VSWR: Typical <1.5:1 at centre frequency	