Installation

CD28-41-50 Series Mopole™ Antennas

148-174 MHz

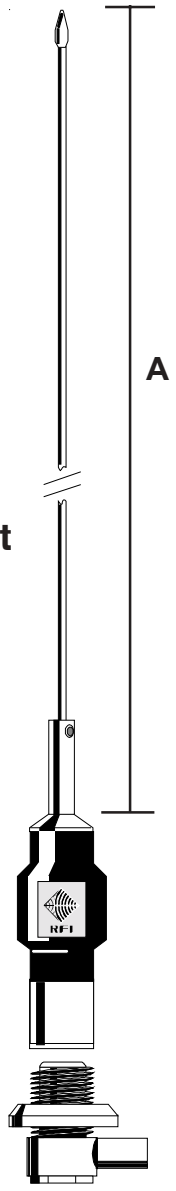
Congratulations! You have purchased a CD28-41-50 series Mopole™ antenna from RF Industries. Mopole™ is the name given to RF Industries' exclusive range of ground independent antennas. The CD28-41-50 series is specifically designed for mobile radios operating in the VHF high band range of frequencies and incorporates a patented matching circuit which enables the antenna to function without the need for a ground plane.

NOTE: Although the antennas when tuned track very closely with the cutting chart provided, this chart should be used as a guide only and the antenna should be tuned for the desired operational band centre.

The CD28-41-50 series antenna exhibits 3.0dB Gain over a 1/4 wave whip mounted in the centre of a metal roof. A high impedance matching network is housed in the base section. This network allows the end feeding of a half wave antenna.

The internal construction of the base section is so precise and stable that the antenna can be easily tuned using the tuning chart below.

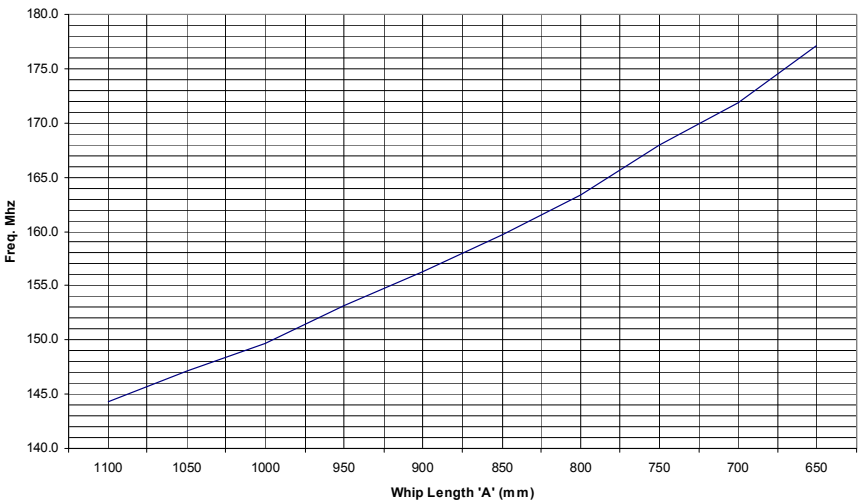
The CD28-41-50 series uses RF Industries unique MBC mounting base, a coaxial fed base which allows the antenna to be easily removed and which can be re-terminated quickly and easily in the field.



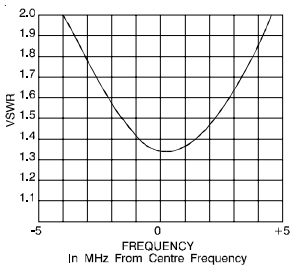
To Terminate The Antenna:

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 VSWR meter. The chart below serves as a guide. Though we strongly recommend all installations be checked for VSWR using a meter.

Cutting Chart



Typical VSWR Chart



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