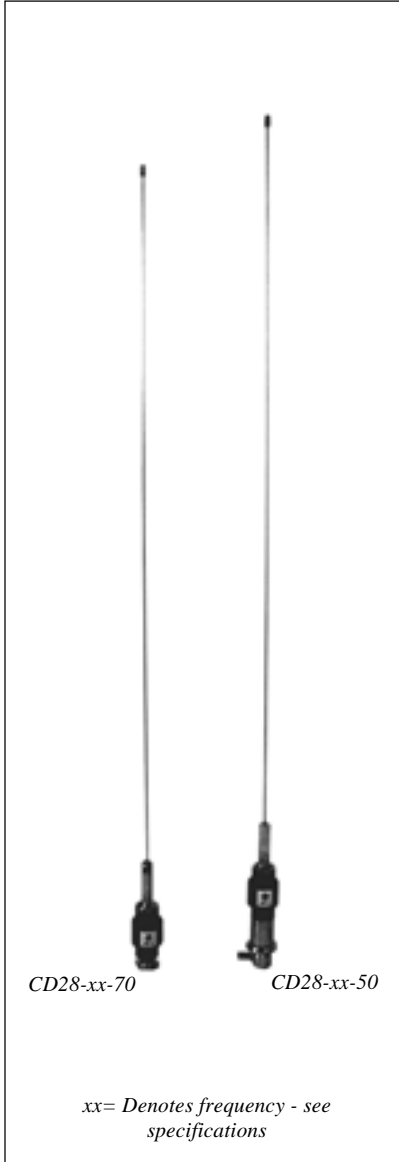


3.0 dB Ground Independent Antennas

133-175 MHz

CD28 Series



The CD28 Series are ground independent Mopole™ antennas ideal in "alternative" mounting positions such as gutter, mirror or trunk mounts. They retain a largely omnidirectional pattern when side mounted on vehicles and deliver a full 3.0dB improvement in performance over a centre roof mounted 1/4 wave whip.

The CD28 Series antennas are end fed dipole (half wave) antennas. The whip section is extremely flexible 17-7Ph stainless steel, making it resistant to knocks and bends.

A high impact thermoplastic moulding houses the antenna matching transformer coil. This coil is immensely strong and durable - and when coupled with the stainless steel whip and plated brass fittings, ensures the integrity of the antenna in any application.

There are two versions of the VHF high band Mopole™ available. CD28-xx-50 Series mates with the MBC coaxial base providing an internal, permanent connection in a completely sealed unit. The MBC base is easy to install and allows the entire antenna to be removed and replaced quickly and easily at will.

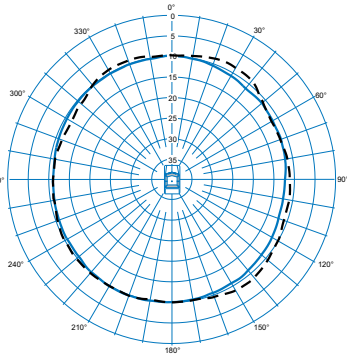
The CD28-xx-70 Series mounts via a threaded stud and nut assembly. The antenna can be easily terminated, tuned or reterminated in the field using supplied instructions. Its patented design allows the coaxial cable to be replaced in the field without specialised tools.

- Performance - Exhibits 3.0 dB improvement in performance over a 1/4 wave whip
- Versatile - Ground independent design allows use in alternative mounting locations
- Rugged - The transformer circuit is housed within a high impact thermoplastic moulding which is virtually indestructible
- Stylish - Clean lines compliment modern vehicle styling
- Unique termination method simplifies installation and re-cabling in the field
- Designed and manufactured in Australia [Patent # 596830]

3.0 dB Ground Independent Antennas

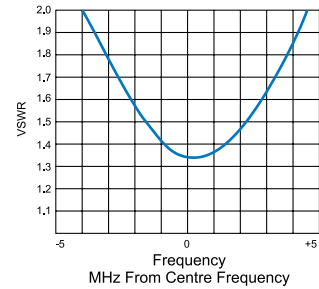
133-175 MHz

CD28 Series



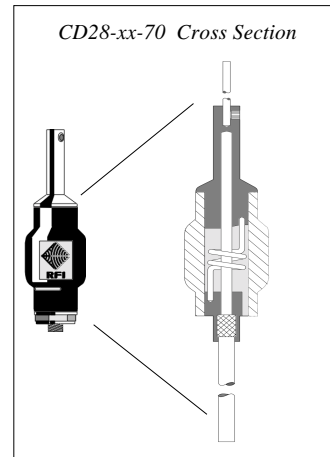
TEST FREQUENCY: 160 MHz	
REFERENCE ANTENNA	—
MODEL: SW2	—
MOUNT: MB9	—
POSITION: Roof Centre	—
TEST ANTENNA	- - -
MODEL: CD28	- - -
MOUNT: Gutter Mount	- - -
POSITION: Gutter Drivers Side	- - -

Typical VSWR Response



The CD28 Series Mopole™ antenna is shown here mounted on the driver's side gutter. The pattern demonstrates that the antenna is providing excellent omnidirectional performance. The CD28 antenna is rated as unity gain referenced to a 1/2 wave dipole though we refer to it in this catalogue as 3dB improvement in performance over a 1/4 wave whip.

* Note: Mopole™ antennas such as the CD28 exhibit a 3dB improvement in performance over a 1/4 wave whip but in pattern tests deliver only 1.5 to 2.0dB of actual gain. This improvement in performance can be attributed to a lower angle of radiation and is of benefit to users in rugged terrain conditions and in heavily built up city areas.



Electrical

Model No.	Gain (dB)	Frequency (MHz)	Power (Watts)	Tuned Bandwidth	Tuning
CD28-33-50 Series	3.0*	133-163	50	4.0 MHz @ 1.5:1 VSWR	Fine tune to minimum VSWR using supplied tuning chart
CD28-33-70 Series					
CD28-41-50 Series		148-175			
CD28-41-70 Series					

Mechanical

Model No.	Whip Material	Whip Length (mm)	Suggested Mounting	Cable and Connector
CD28-xx-50	17-7Ph tapered stainless steel whip moulded base coil assembly	1340	MBC base	Not supplied, order separately
CD28-xx-70			Threaded Stud	

Mopole™ The RFI Trademark for our range of MOBILE diPOLE antennas. They can be mounted virtually anywhere and require no ground plane.