

VHF Ground Independent Mopole™
138-175 MHz
CD28 Series



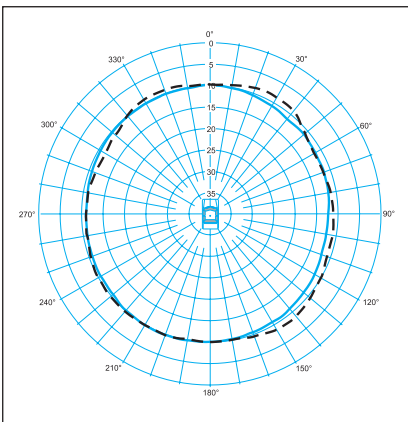
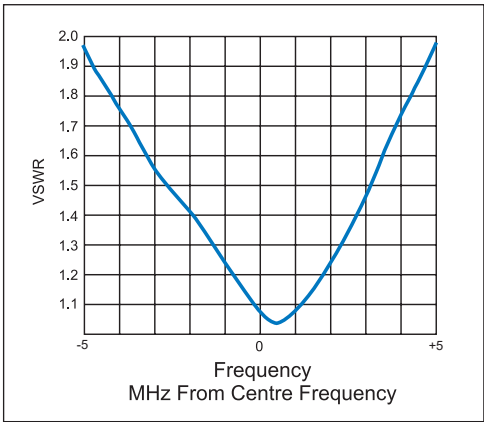
The CD28 series are ground independent Mopole™ antennas ideal in “alternative” mounting positions such as gutter, mirror or trunk mounts.

Utilising a patented matching circuit, the CD28 series antennas are end fed dipole antennas combining a durable thermoplastic housing with a flexible tapered stainless whip section resistant to knocks and bends.

Key Features:

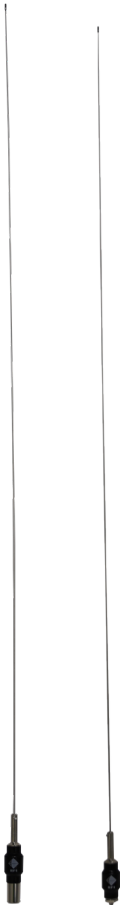
- Performance - Exhibits 3 dB improvement in performance over a 3 wave whip
- Versatile - Ground independent design allows use in alternative mounting locations
- Rugged - The transformer circuit is housed within a high impact thermoplastic moulding which is virtually indestructible
- Unique termination method simplifies installation and re-cabling in the field
- Designed, manufactured and patented in Australia [Australian Patent # 596830 and 656793]

Typical VSWR:



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.

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



Electrical Specifications

Model Number	CD28-37-50	CD28-41-50	CD28-37-70	CD28-41-70
Gain	3dB over a ¼ wave. See note (1)			
Frequency MHz	138 - 148	148 - 175	138 - 148	148 - 175
Power W	50			
Tuned Bandwidth	4 MHz @ 1.5:1 VSWR 8 MHz @ 2.0:1 VSWR	4 MHz @ 1.5:1 VSWR 8 MHz @ 2.0:1 VSWR	4 MHz @ 1.5:1 VSWR 8 MHz @ 2.0:1 VSWR	5 MHz @ 1.5:1 VSWR 10 MHz @ 2.0:1 VSWR
Tuning	Field tune to minimum VSWR using supplied chart			

Mechanical Specifications

Model Number	CD28-xx-50	CD28-xx-70
Whip Material	17-7 PH tapered stainless steel whip with moulded base coil assembly	
Whip Length mm	1340	
Mounting	MBC base (included)	Threaded stud
Cable and Connector	Not included, order separately. See note (2)	

1. Mopole™ antennas such as the CD28 have been shown to exhibit a 3dB improvement in received signal level in the field when compared to a ¼ wave whip however in pattern tests exhibit only 1.5 to 2dB over a ¼ wave (equivalent to 1.5-2dBi). This improvement in performance can be attributed to a lower radiation angle level of these ground independent antennas.
2. Available preterminated with 5m 8058 RG58C/U. Use -73 or -53 suffix to replace -70 or -50 suffix.

Australian Patent No. 596830 and 656793