Elevated Feed Mopole™
470-490 MHz
CD900 Series

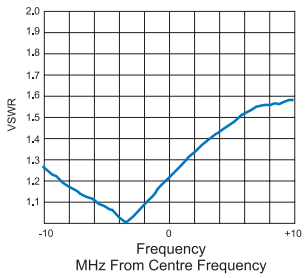
The CD900 Series are high performance elevated feed mobile antennas which can be used in virtually any mounting position. When gutter or roof bar mounted, high above a vehicle, CD900 series antennas deliver a full 6.5dB gain over a 3 wave whip.

When mounted in other positions, such as on a vehicle fender or bull bar, the elevated feed design places a large portion of the antenna above the vehicle cabin, providing good all round performance regardless of mounting position.

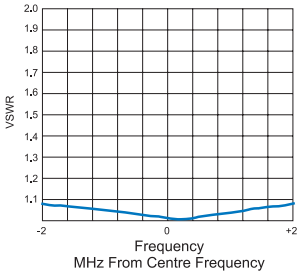
Features:

- Totally ground plane independent
- Elevated feed boosts radiating element above obstructions
- MSW25 “Phasemaster II™” whip section provides unsurpassed performance and strength
- Quality construction - Choke assembly is crafted from solid brass and available in both chrome and black finishes
- Supplied pre-terminated with FME connector and UHF adaptor
- Can be used with a variety of mounts. See accessories section for options.

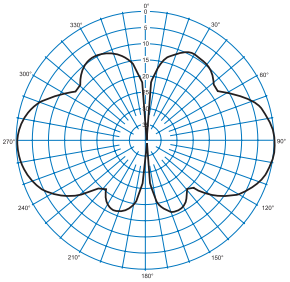
Typical full band VSWR Response (CD920)



Typical UHF CBRS band VSWR Response (CD920)



Typical E-Plane response for CD920



Electrical

Model Number	CD900 Series
Gain	6.5dB over ¼ wave. See note (1)
Frequency ***MHz***	470 - 490
Power ***W***	100
Tuned Bandwidth	Entire UHF CBRS band for <1.25:1 VSWR; Entire 470-490 MHz band for <1.6:1 VSWR
Tuning	Supplied pre-tuned

Mechanical

Model Number	CD920-71-75	CD921-71-75	CD930-71-75	CD931-71-75
Whip Material	Polyurethene over moulded 17-7PH black chrome plated whip section on bright chrome choke		Polyurethene over moulded 17-7PH black chrome plated whip section on black chrome choke	
Spring Options	No spring	SK954 spring included	No spring	SK953 spring included
Whip Length ***mm***	850			
Mounting	Threaded stud and nut assembly 16mm clearance hole required			
Cable and Connector	5m Cellfoam™ with FME-101 terminated, UHF adapter supplied.			

(1) MopoleTM antennas such as the CD900 Series has been shown to exhibit a 6.5dB 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.