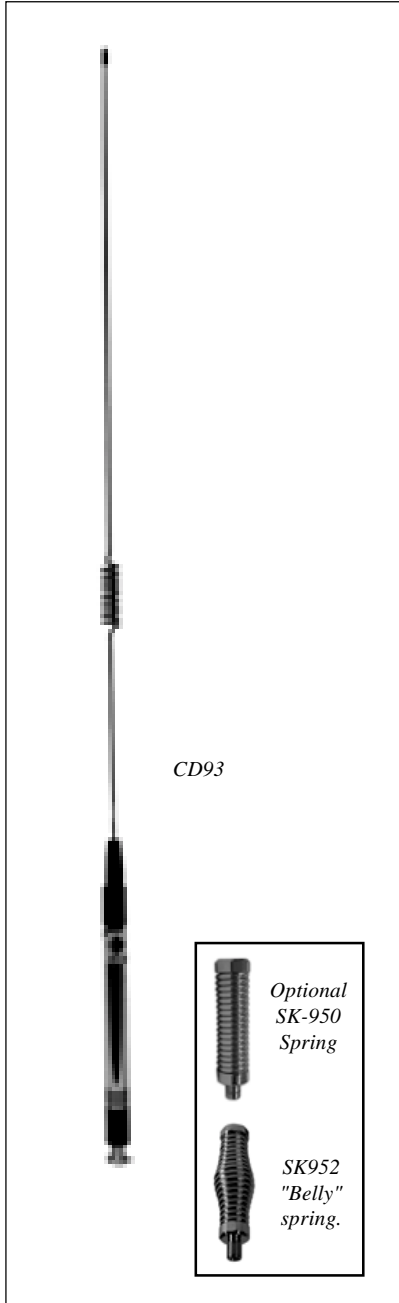


# 6.5 dB Gain Elevated Feed Mopole™ Antennas

400-520 MHz

## CD93 Series CD94 Series



The CD93 and CD94 Series are high performance elevated feed mobile antennas which can be used in virtually any mounting position. Offering high performance and flexibility in mounting these elevated feed antennas are "Problem Solvers" in more ways than one.

When gutter or roof bar mounted, high above a vehicle, CD93 and CD94 Series antennas deliver a full 6.5dB of gain over a quarter 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.

The use of the elevated feed design not only boosts antenna height and performance, it effects a totally ground independent antenna which will deliver low VSWR and stable gain in almost any application.

The elevated feed choke section is hand assembled from solid brass and finished with a triple chrome plating. Delrin polymer is used for critical insulator fittings. The Phasemaster™ whip section is constructed from a single piece of high resilience 17-7Ph stainless steel. The result is a flexible and attractive antenna which will last in the toughest mobile environment.

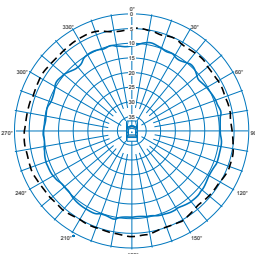
These antennas are available in a number of configurations for different installation requirements, all simple to install and providing peak performance in the most critical of UHF applications.

- Industry Standard - 6.5dB gain over a 1/4 wave whip mounted in the centre of a metal roof
- "Problem Solver" - Elevated feed design eliminates need for a ground plane and boosts the radiating element over obstructions
- Phasemaster™ whip section provides unsurpassed performance and flexibility
- Quality Construction - Choke assembly is crafted from solid brass
- Fibreglass whip option available

# 6.5 dB Gain Elevated Feed Mopole™ Antennas

400-520 MHz

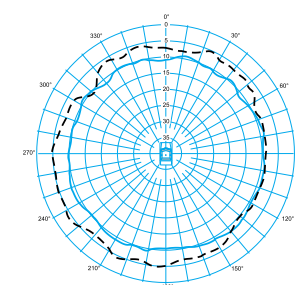
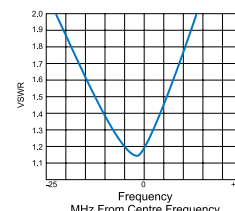
**CD93 Series**  
**CD94 Series**



*This pattern shows that when elevated above obstructions, the CD93 is fully ground independent and delivers superior gain. This pattern is showing that the published gain figures of 6.5dB over a 1/4 wave whip are justified.*

TEST FREQUENCY: 460 MHz
REFERENCE ANTENNA MODEL: SW7 MOUNT: MB10 POSITION: Roof Centre
TEST ANTENNA MODEL: CD93 MOUNT: Gutter Mount POSITION: Gutter Driver Side

Typical VSWR Response for CD93 Series



## MOUNTING NOTES

*Fender mounting of the CD93 results in a pattern which, while it does not exhibit overwhelming nulls is less satisfactory than that shown above. The use of the optional spring in this mounting position would further improve performance as it would boost the antenna height further above the vehicle cabin.*

TEST FREQUENCY: 460 MHz
REFERENCE ANTENNA MODEL: SW7 MOUNT: MB10 POSITION: Roof Centre
TEST ANTENNA MODEL: CD93 MOUNT: Trunk mount POSITION: Rear drivers side

## Electrical

Model No.	Gain (dB)	Frequency (MHz)	Power (Watts)	Tuned Bandwidth	Tuning
CD93-65-70	6.5	400-420	80	Entire specified range @ <1.6:1 VSWR	Supplied pre-tuned
CD93-70-70		450-470			
CD93-71-70		470-490			
CD93-72-70		490-520			
CD94-65-70		400-420			
CD94-70-70		450-470			
CD94-71-70		470-490			
CD94-72-70		490-520			

## Mechanical

Model No.	Colour Code	Whip Material	Whip Length (mm)	Suggested Mounting	Cable and Connector
CD93-65-70	Black	17-7Ph stainless steel w/ black high gloss finish	810 max. (includes whip and choke section)	Threaded stud and nut assembly mounts in either 13mm or 16mm dia. mount hole	Not supplied, order separately
CD93-70-70	Red				
CD93-71-70	Blue				
CD93-72-70	Yellow				
CD94-65-70	Black	17-7Ph plain stainless steel			
CD94-70-70	Red				
CD94-71-70	Blue				
CD94-72-70	Yellow				