



EM-M10001

VHF/UHF Broad Band Quarter-Wave Roof Mount Antenna 108-520 MHz

- NMO Mount Type
- Black Chrome Finish
- Field Tunable
- O-ring seal for waterproof construction
- Durable Xenoy™ base with TPV over mold dust seal and grip ring

Electrical Specifications

Frequency Band	(Tunable Range)	108-520 MHz
VSWR	(15 MHz Bandwidth @150 MHz)	<2.0:1
	(50 MHz Bandwidth @450 MHz)	<1.5:1
	(100 MHz @450 MHz)	<2.0:1
Impedance		50Ω
Gain (dBi)		2.0
Power Rating		100 W
Polarization		Linear, Vertical
E-Plane		50 Degrees, Nominal
H-Plane		Omnidirectional
Groundplane		Required

Mechanical Specifications

Overall Length	(@108 MHz)	29 in. (737mm)
	(@150 MHz)	19.75 in. (502mm)
	(@450 MHz)	7.75 in. (197mm)
Whip Material, Finish		17-7 SS, Black Chrome
Spring Material		17-7 SS, Black Chrome
Base Material		Xenoy™ w/TPV over mold grip ring
Mounting Application		¾ inch Thru-Hole NMO Mount
NMO Cable Assembly & Connector		Sold Separately
Operating Temperature		-40° to 85° C
Humidity		95%

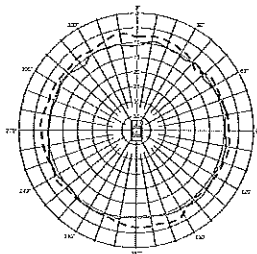
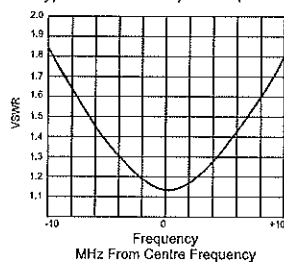
UHF Ground Independent Mopole™

380-520 MHz

CD50, CD51 Series



Typical VSWR response (CD51)

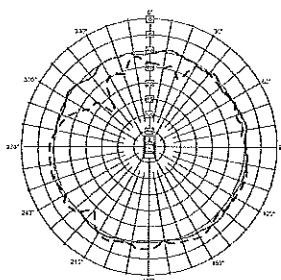


UHF Mopoles™ are excellent performers even when gutter mounted as this pattern demonstrates.

The Mopole™ design has resulted in an antenna which is largely omnidirectional in spite of its gutter mounting position.

TEST FREQUENCY: 460 MHz
REFERENCE ANTENNA
MODEL: SW7
MOUNT: MB10 Roof Centre
TEST ANTENNA
MODEL: CD51
MOUNT: GM2 Gutter Drivers Side

MOUNTING NOTES



Although the CD51 Mopole™ style works extremely well when gutter mounted, moving the antenna down to the vehicle fender, as shown here, will result in severe pattern degradation. This antenna should not be used in this mounting position.

TEST FREQUENCY: 460MHz
REFERENCE ANTENNA
MODEL: SW7
MOUNT: MB10
POSITION: Roof Centre
TEST ANTENNA
MODEL: CD51
MOUNT: Trunk Mount
POSITION: Rear Driver Side

CD50-xx-70 cross section with cable fitted

