

FEATURES

- **Suitable for mast, vehicle and ship installations.**
- **Ground plane can be removed for vehicular use.**
- **Rugged, fully sealed construction.**
- **High efficiency throughout full VHF and UHF communication bands.**
- **Designed to MIL-STD-810 Environmental Conditions.**



The 20-50-80 is a wideband discone intended for use as a mast-head mounted VHF/UHF antenna when using its integral radial ground plane, or as a vehicular/shelter antenna without the radial ground plane when installed on an appropriate conducting surface. The antenna comprises a rugged fiberglass radome containing a specially contoured VHF/UHF discone and associated matching circuits.

All external metalwork is treated aluminum alloy and the removable ground plane has an L-shape bracket to facilitate clamping to the top of a mast.

The entire radome/antenna assembly is foam filled and fully sealed for environmental protection.

SPECIFICATIONS

Cooper Antennas Model 20-50-80

Low Profile VHF/UHF Antenna

ELECTRICAL

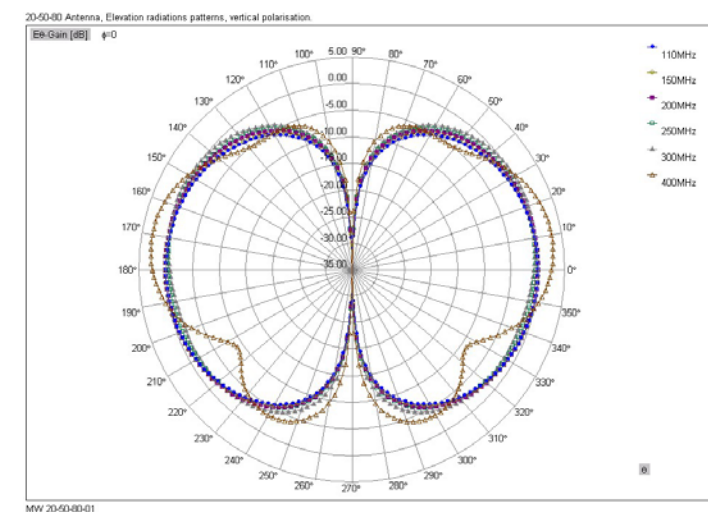
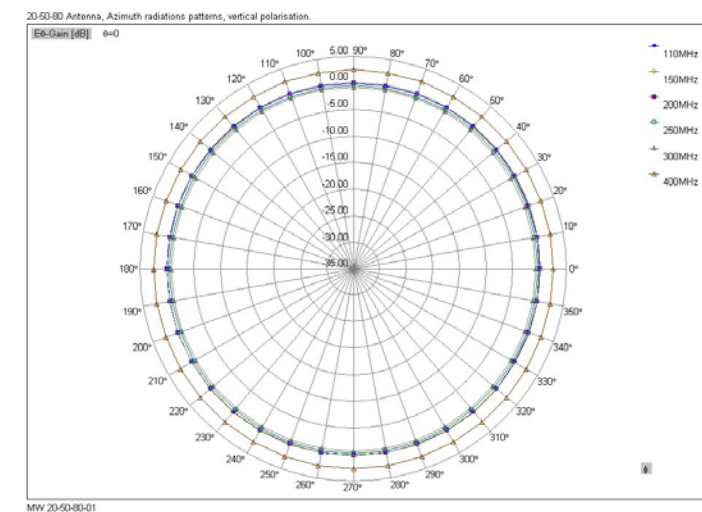
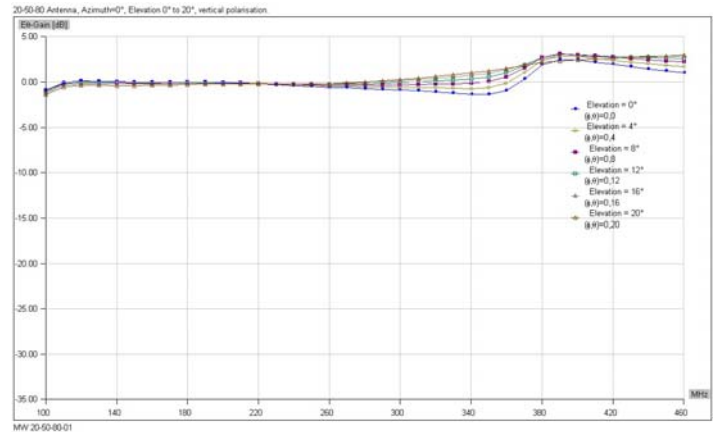
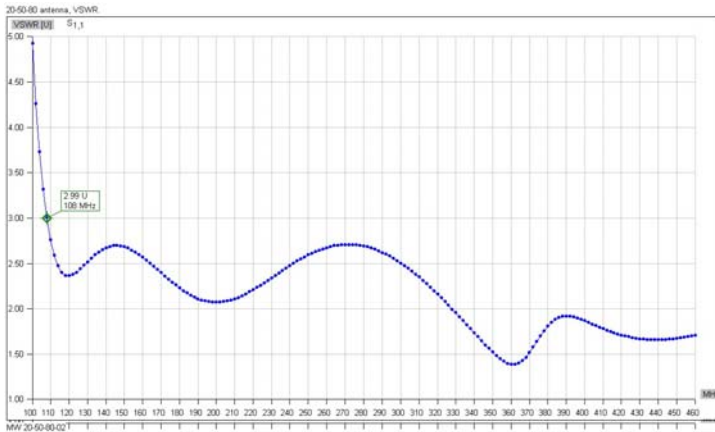
Frequency	108 - 460 MHz
Gain (at beam max)	≥ 0dBi rising to +2dBi @ 460 MHz
VSWR	3.0:1 max
Impedance (nominal)	50 Ohms
Power	200 Watts max
Polarization	Vertical
RF Connector	N Female
Operational Temp	-54°C to +70°C

MECHANICAL

Wind Loading	At least 100mph (160km/hr)
Overall height	27.56 inches (700mm) max
Diameter (over ground plane radials)	35.43 inches (900mm) max
Weight	13.2 lbs (6kg)

FINISH

Standard - Lusterless black urethane
Other finish options are available
Please specify finish required when ordering



Note: Cooper Antennas Ltd has a policy of continuous product improvement and data herein is therefore subject to change. Please check with Cooper Antennas Ltd that this data sheet is at latest issue before initiating contract activity.