

FEATURES

- **Covers VHF band 135 to 175 MHz**
- **Robust Glass Reinforced Plastic construction**
- **Lightweight**
- **Designed to MIL-STD-810 Environmental Specification**
- **46.6 inch height**
- **Omnidirectional azimuthal radiation pattern**
- **100 Watts power handling**



Covering the VHF frequency band 135 to 175 MHz, the 20-20-08-1 is a lightweight antenna intended for ground and shipboard use.

Construction uses an advanced GRP encased radiating element bonded into a machined aluminum base, suitable for prolonged use in a marine shipboard environment.

Unique design ensures good elevation pattern throughout the frequency band and passive matching housed within the base maintains VSWR within 2.0:1 and provides exceptional gain for such a small overall structure.

SPECIFICATIONS

Cooper Antennas Model 20-20-08-1 Broadband Dipole Antenna

ELECTRICAL

Frequency Band:	135-175 MHz
VSWR	≤ 2.0:1
Gain	+2 dBi average thru band
Impedance	50 Ohms
Power	100 Watts average
Polarization	Vertical
Radiation	Omni-directional in Azimuth
Connector	N Female

MECHANICAL

Antenna Shell	GRP radome in aluminium alloy base collar
Overall Height	46.62 inches max (1184mm)
Element Dia.	2.25 inches max (57mm)
Weight	4.4 lbs max (2kg)
Base Plate Shape:	Round 4.5 inch (114.3mm) dia.
Fixing Holes	4 x 0.28 inch (7.1mm) holes of 0.25 inch (6.3mm) bolts on 3.87 A 3.87 inch (98.3mm) PC dia.

FINISH

Antenna	Urethane Lusterless Grey
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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.