



**20-20-09**  
**Ground Stub Antenna**  
**150 to 180 MHz**

## FEATURES

- **Covers VHF band 150 to 180 MHz**
- **Robust composite construction**
- **Lightweight**
- **Designed to MIL-STD-810 Environmental Specification**
- **Low profile, less than 1m (39 inches) height**
- **Omnidirectional azimuthal radiation pattern**
- **50 Watts power handling**
- **Excellent Gain with high efficiency**



Covering the VHF frequency band 150 to 180 MHz, the 20-20-09 is a lightweight antenna intended for ground use.

Construction uses epoxy glass composite structural insulator, supporting aluminum alloy tubes bonded into a machined aluminum base.

Designed as an elevated end fed dipole, the design is tolerant of different mounting circumstances such as tripod, shelter, vehicle or mast.

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# SPECIFICATIONS

## Cooper Antennas Model 20-20-09

### Ground Stub Antenna

#### ELECTRICAL

Frequency	150-180 MHz
VSWR	≤ 2.5:1
Gain	+3dBi average thru band
Impedance	50 Ohms
Power	50 Watts average
Polarization	Vertical
Radiation	Omni-directional in Azimuth
Connector	TNC Female
Temperature	-51°C to +71°C

#### MECHANICAL

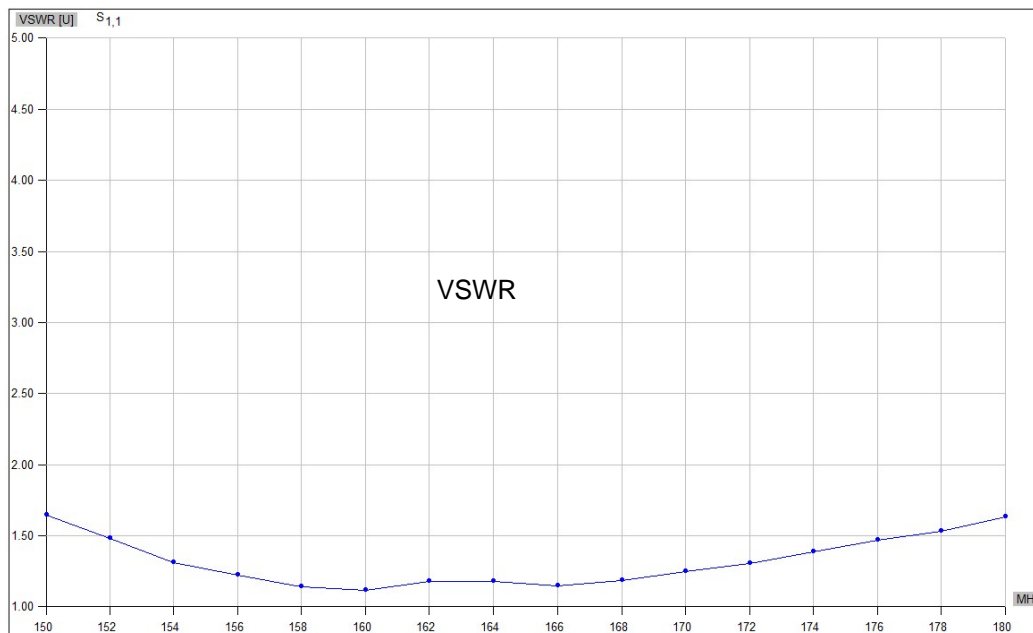
Antenna Shell	Composite epoxy with aluminium alloy base elements and base collar
Overall Height	39.00 inches max (991mm)
Element Dia.	1.75 inches max (44mm)
Weight	3.3 lbs max (1.5kg)
Fixing Holes	4 hole CECOM

#### FINISH

Antenna

Urethane Lusterless Olive Drab

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.**