



**20-20-20**  
**Spring Mounted VHF**  
**SINGARS Antenna**  
**30-88 MHz**

### FEATURES

- **Low silhouette**
- **Spring mounted - can be tied down for stowage**
- **Fits standard CECOM 4 hole mount**
- **Designed to sustain 25 mph “Oak Beam” Test**
- **Designed for vehicle speeds up to 60 MPH**
- **200 Watts CW Power**
- **Requires no tuning**
- **Omni-directional Pattern in azimuth**
- **Complies with MIL-STD-810 Environmental and MIL-S-901 shock**
- **Lightning protected by GTD**
- **Element encased in insulation for 20 KV safety**



The 20-20-20 is a vertically polarized, omni-directional VHF antenna. It is compatible with all popular military radios operating in the 30 to 88 MHz frequency range. The antenna can handle 200 Watts of power and requires no external tuning.

The radiating element is totally encased in high strength fiberglass tube which provides insulation in the event of accidental contact with high voltage power lines.

The antenna is a member of a family of quickly deployed lightweight antennas developed by Cooper Antennas for tactical military communications. Rugged design ensures reliability in arctic, jungle or equatorial desert environments. The antenna is spring mounted for vehicular use and has a mounting base compatible with standard CECOM mounting brackets, having four 7/16 inch dia. holes on 4.5 inch circle. It is especially well suited to special mission applications.

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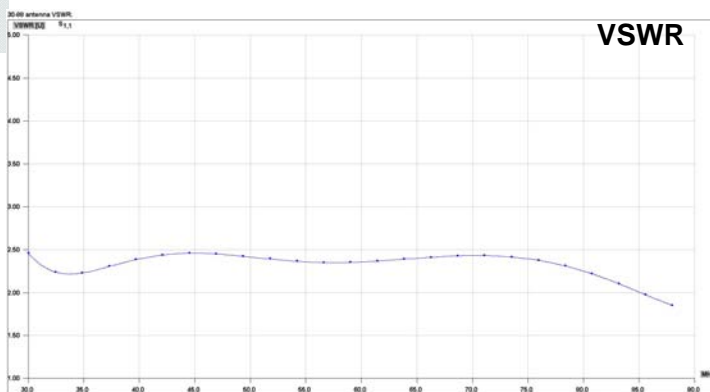
# SPECIFICATIONS

## Cooper Antennas Model 20-20-20

### Spring Mounted VHF SINGARS Antenna

#### ELECTRICAL

Frequency band	30-88 MHz
VSWR	2.5:1 typical (<275: thru band)
Gain (ground plane dependant)	-1 dBi typical at horizon
Impedance	50 Ohms
Power	200 Watts average
Polarization	Vertical
Antenna RF Connectors	N-type Female
Operational Temperature	-51°C to +71°C



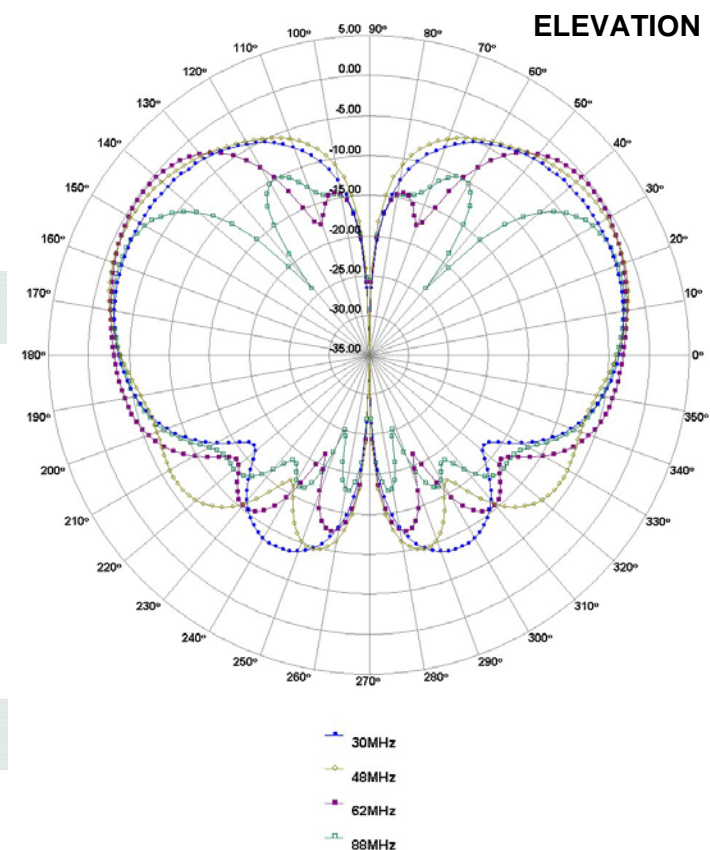
#### MECHANICAL

Overall Height	72 inches (1829mm) (from mount)
Element Diameter	2.25 inches (57mm) (over entire length)
Weight	8 lbs max (3.64 kg)

#### FINISH

**MIL-DTL-14072E(CR), MIL-DTL-53039, 383 GREEN**

Other finish options are available.



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.