



20-50-05
VHF / UHF SINGARS/EPLRS
Antenna
118 - 137/225 - 400 MHz

FEATURES

- **Low silhouette**
- **Rapid Deployment**
- **Fits standard CECOM 4 hole mount**
- **Robust Construction**
- **All Weather operation**
- **Designed for wind speeds in excess of 100 MPH**
- **100 Watts CW Power**
- **Omni-directional Pattern in azimuth**
- **Complies with MIL-STD-810**
- **DC Grounded element**

The 20-50-05 is a vertically polarized, omni-directional VHF/UHF antenna. It is compatible with all popular military radios operating in the 118 to 137 MHz and 225 to 400 MHz frequency ranges. The antenna can handle 100 Watts of power, has separate VHF and UHF coaxial connectors and requires no external tuning.

Radiating elements are totally encased in high strength fiberglass tubing 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 intended for hard mounting on a metal structure but optional ground plane extension with integral radials P/N 20-00-10 may be used for tripod mounting or other applications where there is not adequate ground plane.



Cooper Antennas Ltd for non-USA customers

Thames Industrial Estate, Unit K, Fieldhouse Lane,
Buckinghamshire SL7 1TB, UK
Tel: +44 (0) 1628 482 360
Email: sales@cooperantennas.com
www.cooperantennas.com

Aviatech Corporation for USA customers

3001 Lake Creek Drive, Highland Village
Texas 75077, USA
Tel: +1 817-430-4784
Email: sales@aviatechcorp.com
www.aviatechcorp.com

Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS

Cooper Antennas Model 20-50-05 SINGARS/EPLRS Antenna

ELECTRICAL

Frequency	118 - 137/225 - 400 MHz
Gain	+2dBi average over band
VSWR	≤ 2.5:1
Impedance	50 Ohms
Power	100 Watts average
Polarization	Vertical
Antenna RF Connector	TNC Female (VHF) N Female (UHF)
Operational Temperature	-40°C to +65°C
Isolation	30 dB

MECHANICAL

Overall Height (from Mounting Plate)	46.5 inches (1181mm)
Element Diameter	2.25 inches (57mm) over entire length
Weight	6 lbs (2.7kg)approx

FINISH

Antenna: Desert Sand

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.