



**19-50-25-1HP**  
**High Power VHF / UHF**  
**SINGARS/EPLRS Antenna**  
**30-88 / 108-512 MHz**

## FEATURES

- **High Power - 100 Watts**
- **Passive matching - no tuning required**
- **Fits standard CECOM 4 hole mount**
- **Robust Construction**
- **Instantaneous bandwidth for ECCM waveform**
- **Omni-directional Pattern in azimuth**
- **MIL-STD-810 Environmental**
- **High voltage protection**

The 19-50-25-1HP is a vertically polarized, omni-directional VHF/UHF antenna. It is compatible with all popular military radios operating in the 30-88 / 108-512 MHz frequency ranges. The antenna can handle 100 Watts of power, 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 marine environments. The antenna has a mounting base compatible with standard CECOM mounting brackets, having four 7/16 inch dia. holes on a 4.5 inch circle.



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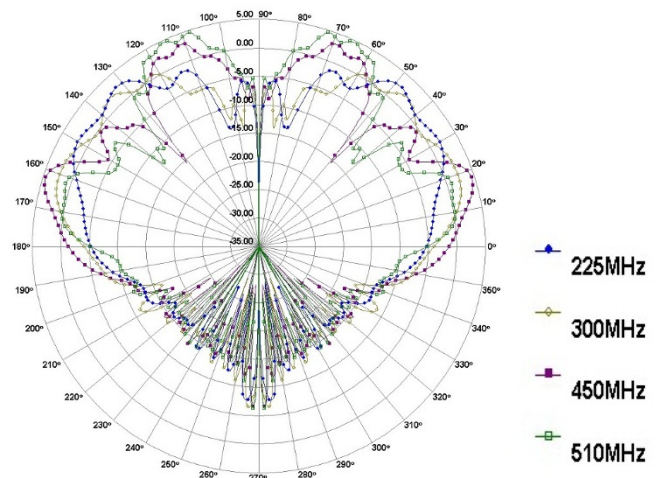
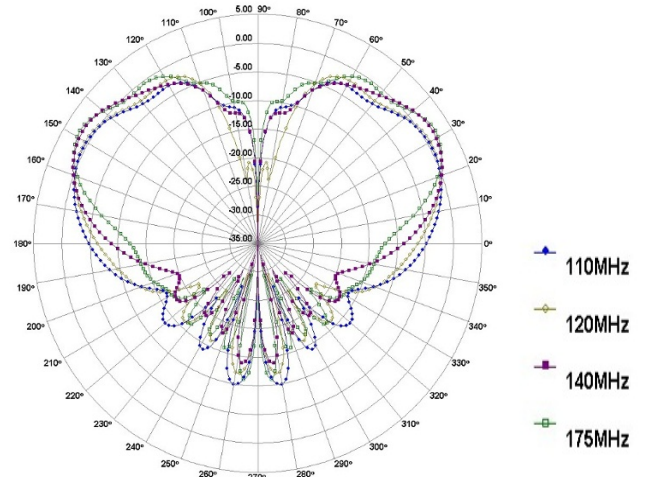
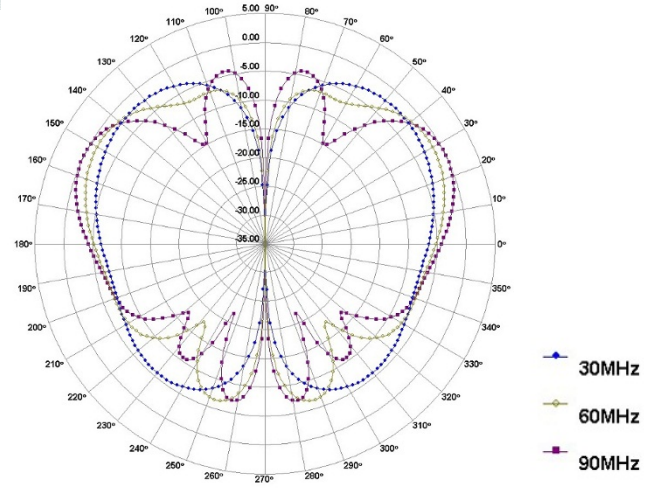
Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

# SPECIFICATIONS

## Cooper Antennas Model 19-50-25-1HP SINGARS/EPLRS Antenna

### ELECTRICAL

Frequency band	30-88 / 108-512 MHz
VSWR	≤ 3.5:1
Gain (typical)	-5dBi to +1.5dBi with respect to $\lambda/4$ Monopole (Ground plane dependant)
Isolation (typical)	30dB
Impedance	50 Ohms
Power	100 Watts CW
Polarization	Vertical
Connector	BNC Female
Group Delay Variations	30-88 MHz: +/- 5.0 nano seconds or less 225-400 MHz: +/- 1.5 nano seconds or less



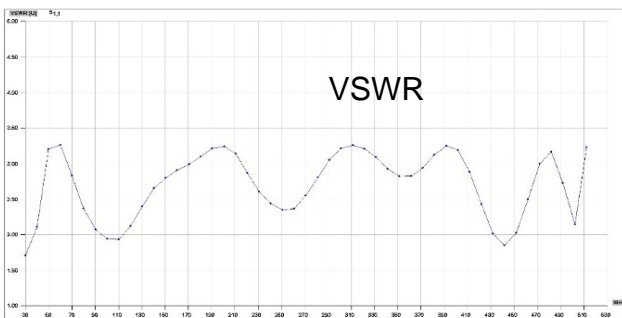
### MECHANICAL

Operational Temperature	-51°C to +71°C
Overall Height from mount	75 inches (1900mm)
Element Diameter	2.25 inches (57mm) (over entire length)
Weight	8 lbs max (3.64kg)

### FINISH

Urethane Lusterless Grey

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.