



21-50-134
Wide-band VHF/UHF Airborne
Blade Antennas
66 to 530 MHz

FEATURES

- **High Strength Broadband Top-loaded Blade Antenna**
- **Frequency Selective passive Matching Network**
- **Requires no external tuning**
- **Fully Foamed for High Environmental Integrity**
- **Suitable for SRM 9000 and Similar Multi-Mode Radios**
- **Complies with MIL-STD-810**
- **Suitable for operation at 120°C**
- **Continuous frequency coverage from 66-530 MHz**



The 21-50-134 is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 66 to 530 MHz frequency range. This antenna can handle up to 50 Watts of power and requires no external tuning.

This wideband, multi-function antenna developed by Cooper Antennas Ltd is particularly suited to tactical military and public service communications. Rugged design ensures reliability in world wide conditions of service on helicopters and subsonic aircraft.

Use of proprietary matching techniques optimizes efficiency and provides omni-directional radiation throughout the operating frequency range. The element is DC grounded for lightning protection.

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

SPECIFICATIONS

Cooper Antennas Model 21-50-134 Broadband Airborne Blade Antennas

ELECTRICAL

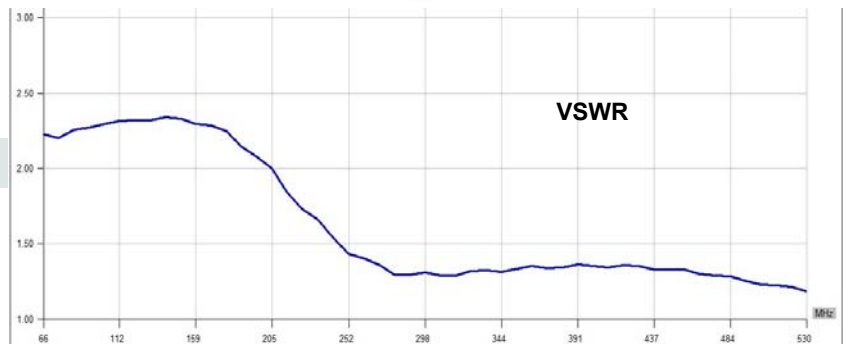
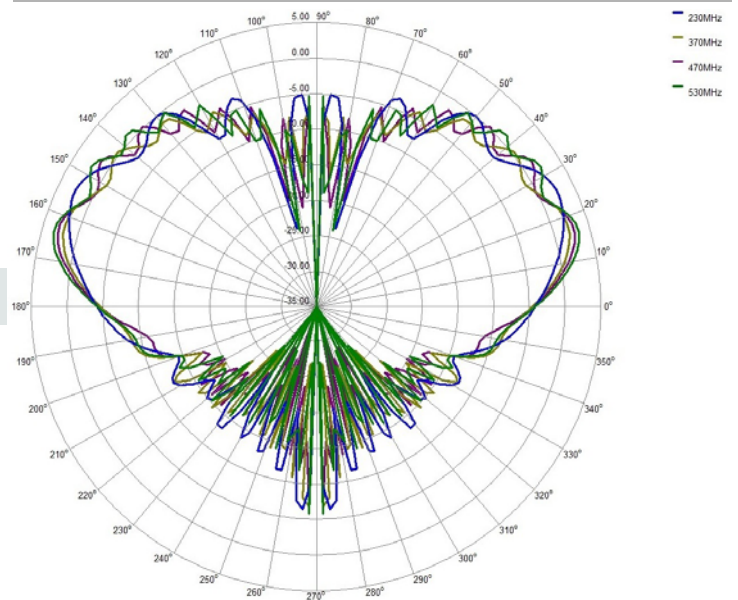
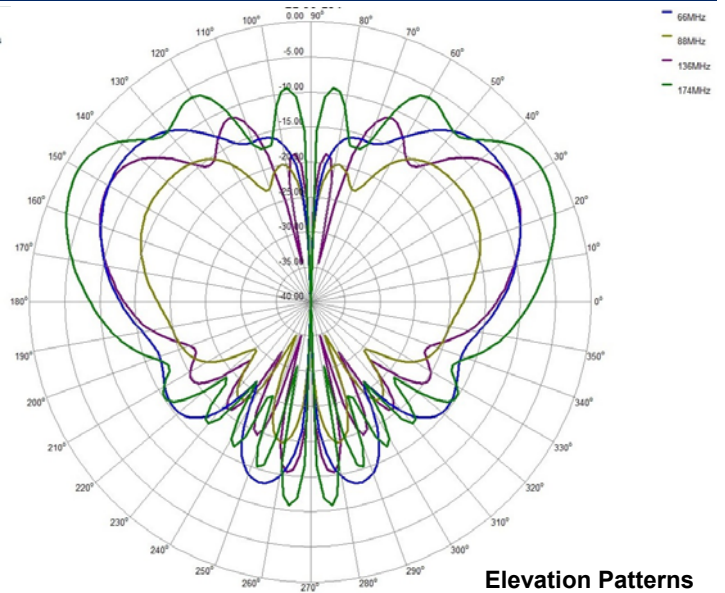
Frequency	66 - 530 MHz (continuous coverage)
Gain	66 MHz: -7 dBi 88 MHz: -14 dBi 136 MHz: -7 dBi 174 MHz: -2 dBi 230 MHz: +2 dBi 370 MHz: +2 dBi 470 MHz: +2.5 dBi 530 MHz: +3 dBi
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical
Radiation	Azimuth : Nominally omni-directional Elevation : See graphs
Antenna RF Connector	TNC Female

MECHANICAL

Antenna Shell Type	High density foam filled epoxy/ fiber glass shell with aluminum alloy top-tube set in aluminum alloy base.
Fixing Holes	10 x Ø 0.208 inch (5.3mm) holes, counter bored Ø 0.48 inches (12.2mm)
Height	9 inches (229 mm)
Weight	4.5 lbs (2.04 kg)
Base Plate Shape	Oval

FINISH

Lusterless Black Urethane
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.