



21-50-19
Combined UHF
Airborne Blade Antenna
400-1000 MHz

FEATURES

- **Covers UHF LOS upper Band**
- **High Strength Composite Blade**
- **Low Side Area, Low Drag**
- **Single 'TNC' Type Connector**
- **Footprint replacement for AT-256**
- **Environmental Performance to MIL-STD-810**
- **Foamed in place radiating elements**



The 21-50-19 is a high performance upper UHF airborne blade antenna suitable for helicopters and fixed wing aircraft.

Construction is from a one piece glass loaded thermoplastic blade molding with an aluminum alloy baseplate which houses the matching circuits and provides for very solid attachment to the airframe via 6 fixing holes drilled to the same pattern as the AT-256 UHF antenna.

Internal radiating elements are shaped in such a way as to produce minimum VSWR and also to optimize radiation. The antenna assembly is sealed by closed cell foam and finished in lusterless black or grey urethane paint.

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SPECIFICATIONS

Cooper Antennas Model 21-50-19

Airborne Blade Antenna

ELECTRICAL

Frequency	400-1000 MHz continuous coverage
Gain (typical) (Average azimuthal)	+2dBi
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical (Horizontal ≤ 10dB)
Radiation	Nominally Omni directional in azimuth plane
Antenna RF Connector	TNC Female

MECHANICAL

Antenna Shell Type	Glass loaded thermoplastic blade with aluminum alloy base plate
Height	6 inches (152mm)
Weight	0.75 lbs (0.34kg) max
Side Loading	≥ 8 psi ultimate
Base Plate Shape	Diamond shape
Fixing Holes	6 x Ø 0.2 inch (5.08mm) holes, spot faced Ø 0.43 inches (10.9mm)

FINISH

Antenna	Gloss White
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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.