

21-50-17 Combined UHF/L-Band Airborne Blade Antenna 225 - 450 & 960 - 1850 MHz

FEATURES

- Covers UHF Com, EPLRS and Link16 Band
- High Strength Composite Blade with Aluminum Alloy Base Block
- Low Side Area, Low Drag
- Single 'N' Type Connector
- Footprint replacement for AT-256
- Environmental Performance to MIL-STD-810
- Foamed in place radiating elements



The 21-50-17 is a high performance combined UHF/L-Band airborne blade antenna suitable for helicopters and aircraft operating in excess of Mach 2.5

Construction is from a one piece glass loaded thermoplastic blade molding intimately bonded into an aluminum alloy base block 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.

The metal base block also enables the 21-50-17 to meet the lightning protection requirements of AS-3191/A.

Internal radiating element 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 21-50-17 Airborne Blade Antenna

ELECTRICAL

Frequency 225 MHz - 450 MHz

960 - 1850 MHz

Gain (typical) +1 to +4 dBi (UHF), +1 to +3 dBi (L-band) when

(Average azimuthal) mounted at center of an a 4 foot diameter ground plane.

VSWR ≤ 2.5:1

Impedance (nominal) 50 Ohms

Power 100 Watts CW UHF

200 Watts CW, 2KW peak (L-band)

Polarization Vertical (Horizontal ≤ 10dB)

Radiation Nominally Omni directional in azimuth plane

Antenna RF Connector N Female

MECHANICAL

Antenna Shell Type Glass loaded thermoplastic blade in aluminum alloy

base collar

Height 9 inches (229mm)

Weight 0.9 lbs (0.4kg)

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 Urethane Lusterless Black

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.