



21-30-24-1
UHF Airborne Blade Antenna
291.4 ± 0.5 MHz

FEATURES

- **Covers Sonobuoy Command Frequency**
- **Low profile, diamond shaped blade**
- **Fully environmentally sealed**
- **Lossless matching - high RF efficiency**
- **Omni-directional radiation pattern**
- **Single N-type female connector**
- **High impact strength glass loaded thermoplastic shell**
- **DC Grounded**



The 21-30-24-1 is an airborne blade antenna designed for helicopters and high performance aircraft covering the UHF Sonobuoy Command frequency. It is a direct footprint replacement for AT256 UHF Blade antennas.

Electrical design is based on a 2-dimensional, monopole which is of high efficiency and provides nearly omni-directional azimuthal radiation.

Mechanical design uses an advanced, glass-loaded thermoplastic radome with an integral radiating element, all foamed-in-place for structural and environmental integrity.

The blade is built into a contoured base collar and has a centrally mounted, N-type female coaxial connector on an aluminium alloy baseplate to which the radiating element is DC grounded for p-static protection.

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SPECIFICATIONS

Cooper Antennas Model 21-30-24-1 UHF Airborne Blade Antenna

ELECTRICAL

Frequency	291.4 ± 0.5 MHz
Gain (average)	≥2 dBi
VSWR	≤ 2.0:1
Impedance (nominal)	50 Ohms
Power	30 Watts CW
Polarization	Vertical
Radiation Pattern	Omni-directional in azimuth, similar to stub in elevation
Antenna RF Connector	N-type Female

MECHANICAL

Antenna Shell Type	Glass loaded thermoplastic blade
Element Height	5.8 inches (147.3 mm) max
Weight	0.75 lbs (0.34 Kg) max
Side Loading	≥8 psi ultimate
Base Plate Shape	Diamond shape
Fixing Holes	6 x Ø 0.203 inch (5.2 mm) holes, counter bored Ø 0.43 inches (10.9 mm)

FINISH

Antenna	Lustreless Black Urethane
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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.