

21-50-32

NSN 5985-99-876-5716
Wide-band VHF/UHF Airborne
Blade Antennas
30 to 600 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 AN/ARC-210, AN/ARC-231, Thales 5400 and Similar Multi-Mode Radios
- Complies with MIL-STD-810
- DC Grounded
- Gain optimized in 30-88 MHz (SINCGARS) band



The 21-50-32 is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 30 to 600 MHZ frequency range. This antenna can handle up to 100 Watts of power and requires no external tuning.

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

Use of a surface deposited radiating element optimizes efficiency and provides omni-directional radiation throughout the operating frequency range. The element is DC grounded for lightning protection. Unique element shaping preserves elevation pattern throughout frequency band.

Cooper Antennas Ltd for non-USA customers

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SPECIFICATIONS

Cooper Antennas Model 21-50-32 Broadband Airborne Blade Antennas

FC1	_	

Frequency 30 - 88 MHz

108 - 174 MHz 225 - 600 MHz

Gain 30 MHz ≥ -17.0 dBi

88 MHz ≥ -8.0 dBi 108 MHz ≥ -5.0 dBi 130 MHz ≥ -2.0 dBi 174 MHz ≥ 0 dBi

225-600 MHz ≥ 0 dBi average

VSWR ≤ 2.5:1 30 - 88 MHz

≤ 2.5:1 108 - 174 MHz ≤ 2.25:1 225 - 450 MHz ≤ 2.5:1 450 - 600 MHz

Impedance (nominal) 50 Ohms

Power 50 Watts CW 30 - 88 MHz & 118 - 174 MHz

100 Watts CW 225 - 600 MHz

Polarization Vertical

Radiation Azimuth : Omni-directional

Elevation: As stub

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.

Height 14.75 inches (375mm)

Weight 5.25 lbs (2.38kg)

Base Plate Shape Tear drop

Fixing Holes 10 x Ø 0.208 inch (5.3mm) holes

FINISH

Antenna Lusterless Black Urethane

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.