

21-50-133
Wide-band VHF/UHF Airborne
Blade Antennas
30 to 512 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-182, AN/ARC-210 and Similar Multi-Mode Radios
- Complies with MIL-STD-810
- Suitable for operation at 120°C
- Continuous frequency coverage from 30-512 MHz



The 21-50-133 is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 30 to 512 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 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 omnidirectional radiation throughout the operating frequency range. The element is DC grounded for lightning protection.

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SPECIFICATIONS

Cooper Antennas Model 21-50-133 Broadband Airborne Blade Antennas

ELECTRICAL

Frequency 30 - 512 MHz (continuous coverage)

Gain 30 MHz ≥ - 22 dBi

88 MHz ≥ - 14.0 dBi

108 to 174 MHz ≥ - 3 dBi average 225 - 512 MHz ≥ 0 dBi average

VSWR ≤ 2.5:1

Impedance (nominal) 50 Ohms

Power 50 Watts CW

Polarization Vertical

Radiation Azimuth : Nominally omni-directional

Elevation: Similar to a 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 9 inches (229 mm)

Weight 4.5 lbs (2.04 kg)

Base Plate Shape Oval

Fixing Holes 10 x Ø 0.208 inch (5.3mm) holes, counter bored Ø 0.48

inches (12.2mm)

FINISH

Antenna 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.