

21-50-124
Wide-band VHF/UHF Airborne
Blade Antenna
108-156 and 225-400 MHz

FEATURES

- High Strength Broadband Blade
 Antenna
- · Less than 10 inches height
- Passive Matching Network
- Requires no external tuning
- Fully Foamed for High
 Environmental Integrity
- Suitable for Mach 2.5+
- Designed to MIL-STD-810

The 21-50-124 is a vertically polarized, omni-directional antenna, compatible with airborne transceivers operating within the 108 to 400 MHz frequency range. This antenna is passively matched and requires no external tuning.

This wideband, multi-function antenna developed by Cooper Antennas Ltd provides excellent performance within a small physical package of less than 10 inches in height. Rugged design ensures reliability in world wide conditions of service on helicopters and supersonic aircraft operating at Mach 2.5+

Use of frequency selective matching optimizes efficiency and provides omnidirectional radiation throughout the operating frequency range. Unique element shaping preserves elevation pattern throughout frequency band.

Cooper Antennas Ltd for non-USA customers

Thames Industrial Estate, Unit K, Fieldhouse Lane,

Buckinghamshire SL7 1TB, UK Tel: +44 (0) 1628 482 360

Email: sales@cooperantennas.com

www.cooperantennas.com



Australian Representatives ROJONE, PTY LTD.

Tel: 02 9829 1555 E: sales@rojone.com.au www.rojone.com.au

SPECIFICATIONS

Cooper Antennas Model 21-50-124 Wide-band VHF/UHF Airborne Blade Antenna

ELECTRICAL

Frequency 108-156 MHz and 225-400 MHz

Gain (typical) 108 MHz -9.5 dBi

118 MHz -8.5 dBi 156 MHz -3.5 dBi

225-400 MHz +2 dBi average

VSWR 108-118 MHz ≤ 3.0:1

118-156 MHz ≤ 2.0:1 225-400 MHz ≤ 2.0:1

Impedance (nominal) 50 Ohms

Power 35 Watts CW

Polarization Vertical

Radiation Azimuth: Omni-directional

Elevation: As stub

Antenna RF Connector N Female

MECHANICAL

Antenna Shell Type High density foam filled epoxy/fiber glass shell set onto

aluminum alloy base.

Height 9.85 inches (250mm) max

Weight 3.5 lbs (1.6kg)

Base Plate Shape Approximately Elliptical

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

(12.2mm)

FINISH

Antenna Lusterless White 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.