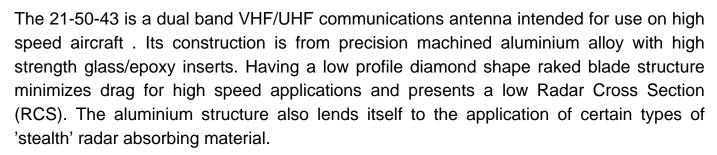


21-50-43 VHF / UHF Airborne Blade Antenna 108 to 174 MHz & 225 to 400 MHz

FEATURES

- Suitable for sub-sonic and super-sonic aircraft.
- Covers standard civil and military Communications Air Band.
- Designed to MIL-STD-810 environment.
- Single 'N-type' connector.
- Rugged Aluminum Alloy construction.
- Foot print replacement for AT-256 UHF blade.
- Diamond shape for low RCS and low drag.



The electrical design comprises a UHF sleeved unipole, the upper element of which acts as a "choke" enabling a capacitive horizontal rod to operate as a top loaded VHF monopole, decoupled from the UHF section.

Designed and constructed to meet MIL-STD-810 environmental conditions, the 21-50-43 is a drop-on footprint replacement for UHF blade type AT-256, having a single N-type Female connector. The antenna is normally finished in lusterless grey urethane paint.

Cooper Antennas Ltd for non-USA customers

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SPECIFICATIONS

Cooper Antennas Model 21-50-43 Airborne Blade Antenna

ELECTRICAL

Frequency Range 108 - 174 MHz

220 - 400 MHz

Gain 108 - 174 MHz -2 dBi min 0 dBi average

220 - 400 MHz 0 dBi min +2 dBi average

VSWR 108 - 115 MHz ≤ 3.0:1

116 - 174 MHz ≤ 2.5:1 220 - 270 MHz ≤ 2.0:1 271 - 375 MHz ≤ 2.25:1 376 - 400 MHz ≤ 3.0:1

Impedance (nominal) 50 Ohms

Power 50 Watts max

Polarization Vertical

Radiation Nominally omni directional in azimuth plane

Antenna RF Connector N Female

MECHANICAL

Antenna Shell Type Diamond shaped aluminium alloy with fibre glass

inserts

Height 12.42 inches (315 mm)

Weight 2.2 lbs (0.99 kg)

Base Plate Shape Diamond shape drilled to replace AT-256

Fixing Holes 6 x Ø 0.200 inches (5mm) holes, counter sunk at 100° Ø

0.39 inches (9.9mm)

FINISH

Antenna Urethane Lustreless Grey

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.