



21-50-334
Wide-band VHF/UHF Airborne
Blade Antennas
29.5 to 960 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 wide band Multi-Mode Radios**
- **Designed to MIL-STD-810 environmental conditions**
- **Twin connectors for V/UHF and UHF Hi Band**



The 21-50-334 is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 29.5 to 960 MHz frequency range. This antenna can handle up to 25 Watts of power and requires no external tuning.

This wideband, multi-function antenna developed by Cooper Antennas Ltd is particularly suited to public service, para-military and 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 omni-directional radiation throughout the operating frequency range. Unique element shaping preserves elevation pattern throughout frequency band.

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SPECIFICATIONS

Cooper Antennas Model 21-50-334

Wide-Broad Airborne Blade Antennas

ELECTRICAL

Frequency	29.5 - 400 MHz 400 - 960 MHz
Gain	30 MHz ≥ -21.0 dBi 108 - 174 MHz ≥ -3.0 dBi 225 - 400 MHz ≥ + 1 dBi average 400 - 960 MHz ≥ + 1 dBi average
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	25 Watts CW
Polarization	Vertical (when vertically mounted)
Radiation	Azimuth : Omni-directional Elevation : similar to stub
Antenna RF Connector	TNC Female (29.5 - 400 MHz) N type Female (400 - 960 MHz)

MECHANICAL

Antenna Shell Type	High density foam filled epoxy/fiber glass shell with aluminum alloy top-tube set in aluminum alloy base.
Height	9.5 inches (241 mm)
Weight	4.5 lbs (2.04 kg)
Mounting Holes	10 x Ø 0.208 inch (5.3mm) holes

FINISH

Antenna	Gloss white 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.