



FEATURES

- **High Strength Broadband Blade Antenna**
- **Frequency Selective passive Matching Network**
- **Requires no external tuning**
- **Fully Foamed for High Environmental Integrity**
- **Suitable for wide band Multi-Mode Radios - optional VHF/AM performance**
- **Designed to MIL-STD-810 environmental conditions**
- **Twin connectors for V/UHF and UHF Hi Band**

21-50-332

**Wide-band VHF/UHF Airborne
Blade Antennas
29.5 to 960 MHz**



The 21-50-332 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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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS

Cooper Antennas Model 21-50-332 Wide-band Airborne Blade Antennas

ELECTRICAL

Frequency	29.5 - 400 MHz 400 - 960 MHz
Gain	29.5 - 88 MHz -28 to -12 dBi 108 - 174 MHz -3 dBi average (-3 dBi minimum 118-137 MHz) 225 - 400 MHz + 1 dBi average 400 - 960 MHz 0 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 set in aluminum alloy base.
Height	9.5 inches (241mm)
Weight	4 lbs (1.81kg)
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.