



21-50-58-1
Broadband Airborne Blade
Antenna
150 to 400 MHz & 2000 to 2500 MHz

FEATURES

- **Frequency Selective Matching Network**
- **Passive design-requires no external tuning**
- **Fully Foamed to Provide High Environmental Integrity**
- **Aluminum Alloy Retaining Collar Accepts High Side Loading**
- **Drop-on Replacement for AT-1108 & AS3191**
- **Complies with MIL-STD-810/DO160D**
- **Lightning Protection in accordance with MIL-DTL-2565**



The 21-50-58-1 is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 150 to 400 MHz frequency range and 2000 to 2500 MHz.

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 aircraft operating at speeds up to Mach 0.95.

The radiating element is DC grounded for P-Static protection.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

SPECIFICATIONS

Cooper Antennas Model 21-50-58-1 Broadband Airborne Blade Antenna

ELECTRICAL

Frequency	150 - 400 MHz 2000 - 2500 MHz
Gain	150-400 MHz ≥ 0 dBi average 2000-2500 MHz 0dBi average
VSWR	$\leq 2.5:1$ 150 - 400 MHz $\leq 2.5:1$ 2000 - 2500 MHz
Impedance (nominal)	50 Ohms
Power	V/UHF - 50 Watts CW, L-band - 200 Watts CW
Polarization	Essentially vertical (when mounted vertically)
Antenna RF Connector	V/UHF - TNC Female L-Band - N Female

MECHANICAL

Antenna Shell Type	High density foam filled epoxy/fiber glass shell set in aluminum alloy base collar
Height	14.75 inches (375mm)
Weight	4.5 lbs (2.05kg)
Side Loading	≥ 8 psi ultimate
Base Plate Shape	Tear drop
Fixing Holes	6 x \varnothing 0.200 inches (5mm) holes, counter bore \varnothing 0.39 inches (9.9mm)

FINISH

Antenna	Urethane Lusterless Black
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Other finish options are available. Please specify required finish 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.