



21-50-25
VHF
Airborne Blade Antenna
115 to 325 MHz

FEATURES

- **High Strength Broadband Blade Antenna**
- **50 Watts Power Handling Capability**
- **Low Loss Matching Network**
- **Fully Foamed to Provide High Environmental Integrity**
- **Aluminum Alloy Retaining Collar Accepts High Side Loading**
- **Drop-on Replacement for AT-1108**
- **Meets DO-160 Lightning Indirect Effects (LITS) requirements**
- **Complies with MIL-STD-810**
- **DC Grounded for P-Static Protection**



The 21-50-25 is a vertically polarized, omni-directional antenna, compatible with airborne radios operating within the 115 to 325 MHz frequency range. This antenna can handle 50 Watts of power and requires no external tuning.

This VHF antenna developed by Cooper Antennas Ltd is particularly suited to civil and military VHF 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 lightning protection.

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SPECIFICATION

Cooper Antennas Model 21-50-25 VHF Airborne Blade Antenna

ELECTRICAL

Frequency	115 - 325 MHz
Gain	0 dBi average 115 - 225 MHz + 3 dBi average 225 - 325 MHz
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 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/fibre glass shell set in aluminum alloy base collar
Height	14.75 inches (375mm)
Weight	4 lbs (1.8kg)
Side Loading	≥ 8 psi ultimate
Base Plate Shape	Tear drop
Fixing Holes	6 x Ø 0.200 inches (5mm) holes, counter sunk at 100° Ø 0.39 inches (9.9mm)

FINISH

Antenna 21-50-25	Urethane Lusterless Black
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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.