



21-50-100A
Ultra Wide-band VHF/UHF
Airborne Blade Antenna
30 to 2000 MHz

FEATURES

- **High Strength Broadband Top Disc-loaded Blade Antenna**
- **Requires no external tuning**
- **Fully Foamed for High Environmental Integrity**
- **Suitable for AN/ARC-182, AN/ARC-210, ARC 231 and Similar Multi-Mode Radios**
- **Complies with MIL-STD-810**
- **Footprint drillings compatible with Chelton 12-190 Series**



The 21-50-100A is a vertically polarized, omni-directional antenna, compatible with all popular airborne radios operating within the 30 to 2000 MHz frequency range. This antenna can handle up to 50 Watts of power and requires no external tuning.

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 helicopters and subsonic aircraft.

Use of a top loading disc increases gain in VHF whilst not corrupting higher frequencies. Unique element shaping preserves elevation pattern throughout frequency band.

Cooper Antennas Ltd for non-USA customers
Thames Industrial Estate, Unit K, Fieldhouse Lane,
Buckinghamshire SL7 1TB, UK
Tel: +44 (0) 1628 482 360
Email: sales@cooperantennas.com
www.cooperantennas.com



Australian Representatives
ROJONE, PTY LTD.
Tel: 02 9829 1555
E: sales@rojone.com.au
www.rojone.com.au

SPECIFICATIONS

Cooper Antennas Model 21-50-100A Broadband Airborne Blade Antenna

ELECTRICAL

Frequency	30 - 2000 MHz
Gain (typical)	30 MHz -28 dBi 88 MHz -7 dBi 108-137 MHz -0.5 dBi average 138-174 MHz +1.0 dBi average 225-300 MHz +2.0 dBi average 301-512 MHz +1.0 dBi average 960-2000 MHz 0 dBi average
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical
Radiation	Azimuth : Omni-directional Elevation : Similar to stub
Antenna RF Connector	TNC Female

MECHANICAL

Antenna Shell Type	High density foam filled epoxy/fiber glass shell with aluminum alloy top-plate set in aluminum alloy base.
Height (max)	13 inches (330 mm)
Weight	4.1 lbs (1.86 kg)
Base Plate Shape	Tear drop
Fixing Holes	10 x Ø 0.208 inch (5.3mm) holes

FINISH

Antenna	Urethane Lusterless Black
---------	---------------------------

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.