



21-50-64
Wide-band VHF/UHF Airborne
Blade Antenna
116-174 and 225-400 MHz

FEATURES

- **High Strength Broadband Blade Antenna**
- **Less than 12 inches height**
- **Passive Matching Network**
- **Requires no external tuning**
- **Fully Foamed for High Environmental Integrity**
- **Suitable for Mach 0.9**
- **Designed to MIL-STD-810**



The 21-50-64 is a vertically polarized, omni-directional antenna, compatible with airborne transceivers operating within the 116 to 400 MHz frequency range. This antenna is passively matched and requires no external tuning.

This wideband, multi-function antenna developed by Cooper Antennas Ltd provides excellent performance within a small physical package of less than 12 inches in height. Rugged design ensures reliability in world wide conditions of service on helicopters and subsonic aircraft operating up to Mach 0.9

Use of frequency selective matching optimizes efficiency and provides omni-directional radiation throughout the operating frequency range. 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 21-50-64 Wide-band VHF/UHF Airborne Blade Antenna

ELECTRICAL

Frequency	116-174 MHz and 225-400 MHz	
Gain (typical)	116-174 MHz	≥ -2 dBi average
	225-400 MHz	≥ +2 dBi average
VSWR	≤ 2.5:1	
Impedance (nominal)	50 Ohms	
Power	30 Watts CW	
Polarization	Vertical	
Radiation	Azimuth:	Omni-directional
	Elevation:	As stub
Antenna RF Connector	TNC Female	

MECHANICAL

Antenna Shell Type	High density foam filled epoxy/fiber glass shell set onto aluminum alloy base.
Height	11.75 inches (299mm) max
Weight	3.5 lbs (1.6kg)
Base Plate Shape	Approximately Elliptical
Fixing Holes	10 x Ø 0.208 inch (5.3mm) holes, counter bored Ø 0.48 inches (12.2mm)

FINISH

Antenna	Gloss White
---------	-------------

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.