

21-20-19 VHF Airborne Blade Antenna 170 to 220 MHz

FEATURES

- Covers VHF 170-220 MHz band
- High Strength Composite Blade with Aluminum Alloy Base Block
- Low Side Area, Low Drag
- Single 'N' Type Connector
- Meets Lightning Strike Criteria of AS-3191
- Designed to meet Environmental
 Performance to MIL-STD-810
- Foamed in place radiating element



The 21-20-19 is a high performance VHF airborne blade antenna suitable for use on fixed and rotary wing aircraft.

Construction is from a one piece glass loaded thermoplastic moulding intimately bonded into an aluminum alloy base block which houses the matching circuits and provides for very solid attachment to the airframe via 6 fixing holes drilled to the same pattern as the AT-256 UHF antenna.

The metal base block also enables the 21-20-19 to meet the lightning protection requirements of AS-3191/A.

Internal radiating elements are shaped in such a way as to produce minimum VSWR and also to optimize radiation. The antenna assembly is sealed by close cell foam and finished in lusterless black urethane paint.

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SPECIFICATIONS

Cooper Antennas Model 21-20-19

Airborne Blade Antenna

	ELECTRICAL
Frequency	170 MHz to 220 MHz
Gain	+1 dBi typical
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	50 Watts CW
Polarization	Vertical (when mounted vertically)
Radiation	Omni directional in azimuth plane
Antenna RF Connector	N Female
	MECHANICAL
Antenna Shell Type	Glass loaded thermoplastic blade in aluminum alloy base collar
Height	9.10 inches (231mm)
Weight	0.9 lbs (0.4kg)
Side Loading	≥ 8 psi ultimate
Base Plate Shape	Diamond shape
Fixing Holes	6 x Ø 0.203 inch (5.2mm) holes, counter bored Ø 0.43 inches (10.9mm)
FINISH	

Other finish options are available. Please specify finish required when ordering.

Urethane Lusterless Black

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.

Antenna