

21-30-176 UHF Airborne Blade Antenna 225 to 512 MHz

FEATURES

- Covers extended UHF and EPLRS Bands
- High Strength Composite Blade with Aluminum Alloy Base Block
- Low Drag
- Single BNC Connector
- Designed to meet Environmental
 Performance to MIL-STD-810 &
 MIL-T-5422
- Foamed in place radiating element



The 21-30-176 is a high performance UHF airborne blade antenna suitable for use on fixed and rotary wing aircraft.

Construction is from a one piece glass loaded thermoplastic moulding intimately bonded onto an aluminum alloy base block which houses the matching circuits and provides for very solid attachment to the airframe via 6 fixing holes.

An internal radiating element is 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 or grey urethane paint.

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SPECIFICATIONS

Cooper Antennas Model 21-30-176

Airborne Blade Antenna

	ELECTRICAL
Frequency	225 MHz to 512 MHz
Gain (typical)	+2 dBi average
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	100 Watts CW
Polarization	Vertical (when mounted vertically)
Radiation (nominal)	Omni directional in azimuth plane
Antenna RF Connector	BNC Female
	MECHANICAL
Antenna Shell Type	Glass loaded thermoplastic blade on aluminum alloy base
Height	7.75 inches (197mm)
Weight	1.7 lbs (0.77kg) max
Side Loading	≥ 5 psi ultimate
Fixing Holes	6 x Ø 0.203 inch (5.2mm) holes, counter bored Ø 0.4 inches (10.2mm)
	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