

21-50-39
ELT
Airborne Blade Antenna
121.5 and 243 MHz

FEATURES

- Covers 121.5 and 243 MHz without tuning
- High Strength Composite Blade with Aluminum Alloy Base Block
- Low Side Area, Low Drag
- Single TNC Type Connector
- Meets Lightning Strike Criteria of AS-3191
- Environmental Performance to MIL-STD-810



The 21-50-39 is a high performance V/UHF airborne ELT blade antenna suitable for aircraft installation.

Construction is from a one piece glass loaded thermoplastic blade molding 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 21-50-39 to meet the lightning protection requirements of AS-3191/A.

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

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 21-50-39 ELT Airborne Blade Antenna

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Frequency 121.5 and 243 MHz

Gain (typical) + 2dBi (UHF) - 2dBi (VHF)

VSWR 2.0:1 max @ 121.5 and 243 MHz

Impedance (nominal) 50 Ohms

Power 25 Watts CW

Polarization Essentially Vertical (when mounted vertically)

Radiation Nominally omni directional in azimuth plane

Antenna RF Connector TNC Female

MECHANICAL

Antenna Shell Type Thermoplastic/glass blade in aluminum alloy base

collar

Height 9 inches (229mm)

Weight 2 lbs approx. (0.9kg)

Base Plate Shape Diamond shape

Fixing Holes 6 x Ø 0.203 inch holes, counter bored Ø 0.43

inches (10.9mm)

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.