

21-50-106 Wideband Airborne Antenna 225 to 2500 MHz

FEATURES

- Ultra wide-bandwidth
- Continuous frequency coverage
- Fully sealed construction for environmental reliability
- Designed to MIL-STD-810
 Environmental conditions
- Can handle up to 200 watts CW



The 21-50-106 is a wideband, passive monopole antenna suitable for airborne and vehicular applications. The antenna structure comprises a unique element design with careful element shaping to provide excellent gain and radiation, particularly in the important 0° to 30° elevation sector.

Construction comprises shaped internal aluminium alloy element contained within a circular woven glass-epoxy radome, fully sealed and filled with closed cell foam for long term reliability in world wide conditions of service.

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SPECIFICATIONS

Cooper Antennas Model 21-50-106 Wideband Airborne Antenna

ELECTRICAL

Frequency 225 - 2500 MHz

Gain (on 1.5m diameter groundplane) @ 20° elevation ≥ + 3.5 dBi average

@ 10° elevation ≥ + 1 dBi average

@ 0° elevation ≥ -1 dBi average

VSWR ≤ 2.5:1 225-2000 MHz

≤ 3.0:1 2001- 2500 MHz

Impedance (nominal) 50 Ohms

Power Handling 200 Watts average

Polarization Vertical

Radiation Omni-directional in azimuth

Connector TNC Female

MECHANICAL

Height 9.3 inches (236 mm) max

Element Diameter 3.2 inches (81 mm)

Base Diameter 4.33 inches (110 mm)

Mounting holes 4 x 0.220" (nominal) 100° countersunk equi-spaced on

3.78 PCD

Weight 1.9 lbs (0.86kg) max

FINISH

Lusterless Grey Urethane

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.