

21-50-36 VHF/UHF Ultra Low Height Airborne Antenna 110-512 MHz

### **FEATURES**

- Covers 110-512 MHz without tuning
- Lightweight and Ultra Low Profile
- Only 8.5" stand off height
- For helicopter and fixed wing aircraft up to 250 Knots
- Glass/Epoxy –Aluminum construction
- Small footprint
- Designed to MIL-STD-810
   Environmental Conditions
- 50 watts power handling



The 21-50-36 is an externally mounted airborne VHF/UHF antenna operating over the civil and military communication band of 110-512 MHz

The radiating element comprises a hard drawn alloy tube inserted into an aluminum base which contains foamed-in place matching circuits capable of handling up to 50 Watts power.

The method of construction provides protection from military environmental conditions including vibration, shock and temperature variations.

#### Cooper Antennas Ltd for non-USA customers

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## **SPECIFICATIONS**

# Cooper Antennas Model 21-50-36 VHF/UHF Ultra Low Height Airborne Antenna

### **ELECTRICAL**

Frequency Range 110 - 512 MHz

Gain (typical) -9 dBi @ 110 MHz rising to 0 dBi @ 225 MHz

-3 dBi average @ 225 MHz to 512 MHz

VSWR ≥ 3:1

Impedance (nominal) 50 Ohms

Power 50 Watts

Polarization Nominally vertical

Radiation Nominally omni directional in azimuth plane

Antenna RF Connector BNC Female

## **MECHANICAL**

Construction Hard drawn aluminum alloy tube in aluminum

base

Height 8.5 inches (216mm)

Weight 0.37lbs (168g)

Base Plate Shape Tear drop

Fixing Holes  $4 \times \emptyset$  0.170 inches (4.3mm)  $\pm$ 0.005 inches

(0.127mm) holes, counter sunk at 100° Ø 0.320

inches (8.1mm).

### **FINISH**

Antenna Matt 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.