

21-50-83

Multi-Band VHF/UHF, Communications Antenna 30 to 174 MHz, 225 to 512 MHz

FEATURES

- Aero-dynamic design
- Light weight/ high strength
- Fully environmentally sealed
- Internal VHF/UHF filters
- Full 30-512 MHz LOS communications
- AN/ARC-210, AN/ARC-231, ARC164
 & SINCGARS compatible.
- Designed to MIL-STD-810
 Environmental Conditions



The 21-50-83 is a rugged multifunction VHF/UHF communications antenna designed for airborne applications. A high strength vertical shell houses 30 - 174 and 225 - 512MHz linear elements to be used with separate VHF & UHF line of sight "LOS" communications radios. Footprint is compatible with Collins 437S-1H and Chelton 12-437 series antennas.

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SPECIFICATIONS

Cooper Antennas Model 21-50-83 Multi-Band, Communications Antenna

ELECTRICAL

Frequency 30-174 MHz / 225-512 MHz

Gain ≥ -19 dBi @30 MHz

≥ -7 dBi @88 MHz

≥ -1 dBi (average) over 118 -174 MHz ≥ 0 dBi to +3 dBi over 225 - 512 MHz

VSWR ≤ 2.5:1

Impedance (nominal) 50 Ohms

Power 50 Watts (30 – 88 MHz)

50 Watts (118 - 174 MHz) 100 Watts (225 - 512 MHz)

Polarization Vertical,

Antenna RF Connector UHF: N Female

VHF: TNC Female

MECHANICAL

Height 13 inches max (330 mm)

Mounting Hole 8 x Ø 0.205 inches (5mm) holes, counter bore Ø 0.43 inch

(10.9mm)

Weight 6.5 lbs (2.95 kg)

FINISH

Antenna Urethane lusterless Black

Base Plate Unpainted

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.