

21-50-76

Multi-Band Satcom & Communications Antenna

240 to 400 MHz & 30 to 512 MHz

FEATURES

- Aerodynamic design
- High strength
- Fully environmentally sealed
- Hi and Lo angle UHF Satcom coverage
- Full 30 512 MHz LOS communications
- PRC-117G, AN/ARC-210 & AN/ARC-231 compatible
- Low wingspan minimizes loading on aircraft structure
- Footprint fixings compatible with 437S1-H

The 21-50-76 is a rugged multifunction VHF/UHF, AM-FM, LOS and Satcom antenna designed for airborne, ground and ship borne applications. A high strength aerodynamic vertical shell houses a 30 - 512 MHz linear element that can be used for V/UHF line of sight "LOS" communications or UHF Satcom at low angles of elevation. This vertical shell also supports a "Bat-Wing" shape horizontal element containing a pair of cross dipoles, connected to provide high angle, right hand circularly polarized UHF Satcom coverage.

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SPECIFICATIONS

Cooper Antennas Model 21-50-76 Multi-band Satcom & Communications Antenna

ELECTRICAL

Frequency Hi Angle: 240 - 400 MHz

Lo Angle: 30 - 512 MHz

Gain Hi Angle: +6.5 dBiC

Lo Angle: -20 dBi @ 30 MHz

-8.0 dBi @ 88 MHz

-5.0 dBi average @ 118 -174 MHz +2.0 dBi average @ 225 - 512 MHz

VSWR Hi Angle : ≤ 2.0:1

Lo Angle: $\leq 2.5:1$

Impedance (nominal) 50 Ohms for both ports

Power Hi Angle: 200 Watts CW

Lo Angle: 50 Watts (30-88 MHz), 50 Watts (118-175 MHz),

200 Watts (225-512 MHz)

Polarization Hi Angle: Right Hand Circular

Lo Angle: Vertical, Linear

Antenna RF Connector Hi Angle: N Female

Lo Angle: TNC Female

MECHANICAL

Height 12 inches (305mm) max

Wingspan 13 inches (330mm) max

Mounting Hole Configuration 8 holes each 0.208 - 0.234 dia. Inches (5.28 - 5.94mm)

Weight 9 lbs (4.1kg) max

ENVIRONMENTAL

Designed to Environmental MIL-E-5400 Class 2 / MIL-STD-810

FINISH

Antenna: Urethane Lusterless Grey FED-STD 595 36173 Baseplate: Unpainted, Alocrom

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.