

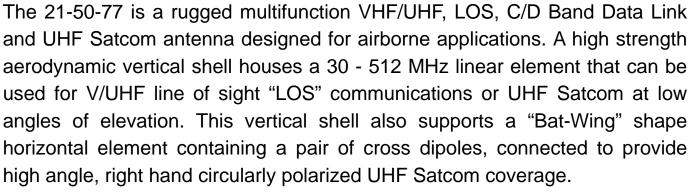
21-50-77

Multi-function UHF/VHF, LINK16, and Satcom Antenna

240 to 400 MHz, 30 to 512 MHz, 900 to 2000 MHz

FEATURES

- Hi and Lo angle UHF Satcom coverage
- Full 30 512 MHz LOS communications
- Wide Band Link16/JTIDS/MIDS
- PRC-117G, AN/ARC-210 & AN/ARC-231 compatible
- Low wingspan minimizes loading on aircraft structure
- Fixing holes compatible with 437S1-H
- Designed to MIL-STD-810 Environmental Requirements



A small wideband discone on the upper batwing surface provides 900-2000 MHz coverage for LINK16, MIDS, JTIDS and other C/D band systems.

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SPECIFICATIONS

Cooper Antennas Model 21-50-77

Multi-function UHF/VHF, LINK16 and Satcom Antenna

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Frequency UHF Hi Angle: 240 - 400 MHz

V/UHF Lo Angle : 30 - 512 MHz C/D Band: 900 - 2000 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 +1.0 dBi average @ 900 - 2000 MHz

VSWR Hi Angle : ≤ 1.5:1

Lo Angle : ≤ 2.5:1 Link 16 &C/D Band : ≤ 2.0:1

Impedance (nominal) 50 Ohms for all ports

Power Hi Angle: 200 Watts CW

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

200 Watts (225-512 MHz)

C/D Band: 2 KW Peak

Polarization UHF Hi Angle: Right Hand Circular

V/UHF Lo Angle : Vertical
C/D Band: Vertical
UHF Hi Angle : N Female

V/UHF Lo Angle : TNC Female Link 16 &C/D Band: TNC Male

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 9.5 lbs (4.32Kg)

Antenna RF Connector

ENVIRONMENTAL

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

FINISH

Antenna: Urethane Lusterless Grey 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.