

21-50-78

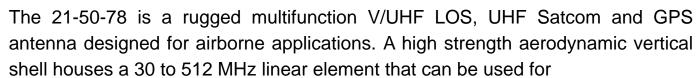
Multi-function V/UHF/LOS Satcom and GPS Antenna

30 to 512 MHz & 240 to 400MHz

1564 to 1587/1216 to 1239 MHz

FEATURES

- Hi angle UHF Satcom & MUOS coverage
- Lo Angle V/UHF LOS communication
- Covers L1 and L2 GPS Frequencies
- EPLRS compatible
- Low wingspan minimizes loading on aircraft structure
- Fixing holes compatible with 437S1-H
- Designed to MIL-STD-810 Environmental Requirements
- Erosion protection over all leading edge surfaces



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 and an L1/L2 passive GPS antenna.

The antenna is completely sealed and filled with closed cell foam for long term protection against moisture ingress and reliability is further enhanced by a polyurethane rubber coating over all leading edges.

Cooper Antennas Ltd for non-USA customers

Thames Industrial Estate, Unit K, Fieldhouse Lane, Buckinghamshire SL7 1TB, UK

Tel: +44 (0) 1628 482 360

Email: sales@cooperantennas.com

www.cooperantennas.com



Australian Representatives ROJONE, PTY LTD.

Tel: 02 9829 1555 E: sales@rojone.com.au www.rojone.com.au

SPECIFICATIONS

Cooper Antennas Model 21-50-78

Multi-function V/UHF/LOS/Satcom and GPS Antenna

	\sim 1	ГОІ	\sim \sim	
	U		ICA	╙┖

Frequency UHF Hi Angle: 240 - 400 MHz

V/UHF Lo Angle: 30 - 512 MHz

GPS: 1564 - 1587 / 1216 - 1239 MHz

Gain (typical) 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

GPS: +3.0 dBiC @ Zenith

VSWR Hi Angle : ≤ 2.0:1

Lo Angle : ≤ 2.5:1 30-451 MHz

≤ 3.0:1 451-512 MHz

GPS: ≤ 2.0:1

Impedance (nominal) 50 Ohms for all ports

UHF Power Hi Angle: 200 Watts CW

Lo Angle: 50 Watts (30-88 MHz), 50 Watts (118-174 MHz)

200 Watts (225-512 MHz)

GPS: 1 Watt

Polarization UHF Hi Angle: Right Hand Circular

UHF Lo Angle: Vertical

GPS: Right Hand Circular

Antenna RF Connector UHF Hi Angle: N Female

UHF Lo Angle: TNC Female GPS: TNC Male

MECHANICAL

Height 12.9 inches (328mm) max

Wingspan 13 inches (330mm) max

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

Weight 9.86 lbs (4.47Kg)

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.