



21-50-71
**Multi-function UHF/VHF, LINK16,
WNW, SRW, ANW2 &
Satcom Antenna**
240 to 400 MHz, 30 to 2000 MHz

FEATURES

- **Hi and Lo angle UHF Satcom coverage**
- **Full 30 - 2000 MHz LOS communications**
- **Wide Band Link16/WNW/SRW/ANW2**
- **PRC-117G, AN/ARC-210 &
AN/ARC-231 compatible**
- **Low wingspan minimizes loading on
aircraft structure**
- **Designed to MIL-STD-810 Environmental
Requirements**



The 21-50-71 is a rugged multifunction VHF, UHF, C/D Band and UHF Satcom antenna designed for airborne applications. A high strength aerodynamic vertical shell houses a 30 - 2000 MHz three dimensional linear element that can be used for VHF, UHF, C/D-Band 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 21-50-71

Multi-function UHF/VHF, LINK16 WNW, SRW, ANW2 and Satcom Antenna

ELECTRICAL

Frequency	UHF Satcom Hi Angle :	240 - 400 MHz
	V/UHF/L-Band LOS:	30 - 2000MHz
Gain (Typical)	UHF Satcom Hi Angle :	+6.5 dBiC @ Zenith
	LOS :	-18.5 dBi @ 30 MHz
		-8.0 dBi @ 88 MHz
		-1.0 dBi average @ 118 -174 MHz
		+1.0 dBi average @ 225 - 2000 MHz*
VSWR	UHF Satcom Hi Angle :	≤ 2.0:1
	LOS :	≤ 2.5:1
Impedance (nominal)	50 Ohms for all ports	
Power	UHF Satcom Hi Angle :	200 Watts CW
	LOS :	50 Watts (30-174 MHz)
		200 Watts (225-2000 MHz)
Polarization	UHF Satcom Hi Angle :	Right Hand Circular
	LOS :	Vertical
Antenna RF Connector	UHF Satcom Hi Angle :	N Female
	LOS :	TNC Female

MECHANICAL

Height	13 inches (330mm) 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)

ENVIRONMENTAL

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