

21-50-71-2

Multi-function UHF/VHF, APC025, LINK16, Tacan, IFF &

**UHF Satcom Antenna** 

30 to 1220 MHz, 240 to 400 MHz

## FEATURES

- Hi and Lo angle UHF Satcom coverage
- Full 30 1220 MHz LOS continuous coverage
- Wide Band Link16/IFF/Tacan
- PRC-117G, AN/ARC-210 & AN/ARC-231 compatible
- Low wingspan minimizes loading on aircraft structure
- Designed to MIL-STD-810 Environmental Requirements



The 21-50-71-2 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 - 1220 MHz three dimensional linear element that can be used for VHF, UHF, APC025 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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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

## SPECIFICATIONS

## Cooper Antennas Model 21-50-71-2

Multi-function UHF/VHF, APC025 LINK16, Tacan, IFF & Satcom Antenna

	ELECTRICAL		
Frequency	UHF Satcom Hi Angle :	240 - 400 MHz	
	V/UHF/L-Band LOS:	30 - 1220 MHz (continuous coverage)	
Gain (Typical)	UHF Satcom Hi Angle :	+5 dBiC @ Zenith	
	LOS :	-26 dBi @ 30 MHz	
		-15 dBi @ 88 MHz	
		-6.5 dBi average @ 118 -174 MHz	
		0 dBi average @ 225 - 1220 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 (225-1220 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	12 inches (305mm) max	12 inches (305mm) max	
Wingspan	13 inches (330mm) max	13 inches (330mm) max	
Mounting Hole Configuration	8 holes each 0.208 - 0.23	8 holes each 0.208 - 0.234 dia. Inches (5.28 - 5.94mm)	
Weight	8 lbs (3.6Kg)		
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 finis	h required when ordering.	
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