

21-50-110-2 Combined VHF ATC GNSS Airborne Blade Antenna 118 to 137 MHz & GPS/Galileo

## **FEATURES**

- Covers GPS and Galileo frequencies
- Integral Low Noise Amplifier (LNA)
- Efficient VHF ATC antenna
- Light weight, low profile
- Designed to MIL-STD-810 environmental requirements for helicopter and subsonic transport aircraft.



The 21-50-110-2 is a combination, vertically polarized VHF communications and circularly polarized active GNSS antenna suitable for mounting on the upper surfaces of helicopters and sub sonic fixed wing aircraft.

Designed as a short, top loaded monopole for VHF communications and having a top mounted patch antenna with integral low noise amplifier (LNA) for GNSS, this antenna has separate decoupled feeds to allow for simultaneous operation of both systems.

Mechanical construction uses a glass reinforced thermoplastic shell with foamed-in-place internal elements. N-type (VHF) and TNC (GNSS) connectors are fitted to the aluminum base plate which is DC grounded for p-static protection.

Power for the LNA is fed via the GNSS coaxial cable.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

## **SPECIFICATIONS**

## Cooper Antennas Model 21-50-110-2 Combined VHF ATC GNSS Airborne Blade Antenna

## ELECTRICAL

Frequency	118-137 MHz VHF
	1164.45-1239.60 L5/L2 GP; E5 Galileo
	1266.75-1290.75 E6 Galileo
	1558.42-1592.42 L1 GPS; E1,E2 Galileo
Power	50 Watts (VHF)
Impedance	50 Ω (nominal)
VSWR	2.5:1 VHF
	1.5:1 GNSS (Antenna)
Gain (typical) antenna	+1 dBi VHF average over band +4.3 dBiC GPS L1
	1.4 dBiC - 2.5 dBiC Galileo and GPS L2/L5
Gain LNA	44 ± 2 dB
Polarization	Vertical (VHF)
	Right Hand Circular (GNSS)
Connectors	N Type Female (VHF)
	TNC Female (GNSS)
DC Power for GNSS Pre-Amp	2.5 - 24 V ≤ 50 mA (typical)
MEC	CHANICAL
WEC	
Height	11 inches (279mm)
Weight	3 lbs (1.36Kg) max
	FINISH

**Urethane Lusterless Black** 

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.