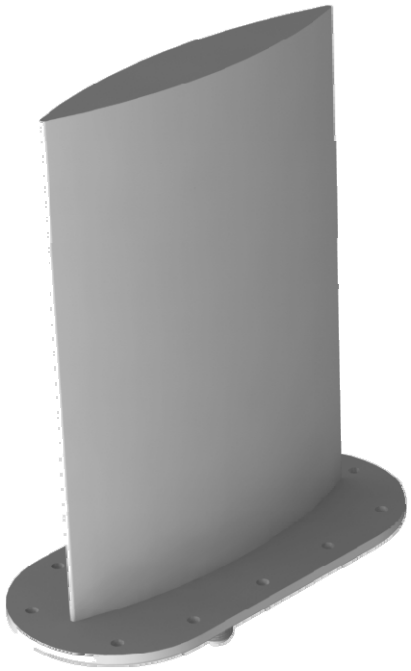
21-50-114
VHF/UHF/L-Band
Airborne Blade Antenna
30 to 512 / 960 to 1220 MHz

FEATURES

- **Very low height 8.2"**
- **50 dB isolation with in-built filters**
- **Very wide band with no tuning required**
- **Designed to MIL-STD-810**
- **Fully environmentally sealed**
- **Suitable for Link 16, IFF, Tacan**



The 21-50-114 is a low profile blade antenna providing excellent UHF and L-Band performance while also providing frequency coverage in the 30-88 and 108-174 MHz bands. Radiating element design is optimized to provide excellent gain and omni-directivity in azimuth over the full 225-512 MHz and 960-1220 bands while VHF provides moderate performance only due to the antenna's very low height.

Construction uses a glass epoxy radome bonded into an aluminum alloy base plate which carries a TNC type and SC connector and contains internal filters to isolate signals between V/UHF and L-Band.

The antenna is suitable for rotary and fixed wing aircraft operating in excess of Mach 1.

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

SPECIFICATIONS

Cooper Antennas Model 21-50-114

VHF/UHF/L-Band Airborne Blade Antenna

ELECTRICAL

Frequency Range	**30-88 MHz**
	116-174 MHz
	225-512 MHz
	960-1220 MHz
Polarization	**Vertical**
Impedance	**50 Ohms (nominal)**
VSWR	**2.0:1 L-Band**
	2.5:1 max VHF/UHF
Gain (typical)	**30-88 -40 dBi** **116-174 -15 dBi** **225-512 +2 dBi** **960-1220 +2 dBi**
Isolation	**50 dB minimum between V/UHF and L-Band**
Power Handling	**25 Watts (average) V/UHF**
	2 KW peak L-Band
Connectors	**Type SC Female (L-Band)**
	Type TNC Female (V/UHF)

MECHANICAL

Height	**8.2 inches (208 mm)**
Weight	**2.1 lbs (0.96kg) max**

FINISH

Antenna	**Urethane Lusterless Grey**

Other finish options are available. Please specify finish required when ordering.