



21-50-23
UHF/L-band
Airborne Blade Antenna
225 - 400MHz & 960 - 1220 MHz

FEATURES

- **Suitable for Subsonic and Supersonic Aircraft**
- **Lightweight / High Strength**
- **Designed to MIL-STD-810 Environmental conditions**
- **Covers UHF Comms & IFF / TACAN / Link 16 / JTDS / MIDS**
- **Elements DC grounded**
- **Separate N-Type and TNC connectors**



The 21-50-23 is a vertically polarized combined antenna suitable for UHF communications and L-band, IFF, TACAN, MIDS, LINK16 applications.

This antenna uses advanced, high temperature composite material suitable for use on all subsonic airborne platforms as well as supersonic aircraft operating up to Mach 2+.

The antenna is fully sealed to ensure reliability in world wide conditions of service. Separate UHF and L-band connectors are provided. Separate UHF low pass (21-80-04) and L-Band high pass (21-80-03) are available and recommended when simultaneous operation of both bands is required.

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

SPECIFICATIONS

Cooper Antennas Model 21-50-23 UHF/L-Band Blade Antenna

ELECTRICAL

Frequency	225 - 400 MHz and 960 - 1220 MHz
Gain	225-400 MHz +2dBi average 960-1220 MHz +2dBi average
VSWR	≤ 2.25:1 225 - 400 MHz ≤ 2.0:1 960 - 1220 MHz
Impedance (nominal)	50 Ohms
Power	UHF - 50 Watts CW, L-band - 200 Watts CW
Polarization	Essentially vertical (when mounted vertically)
Antenna RF Connector	UHF - TNC Female L-Band - N Female

MECHANICAL

Antenna Shell Type	High density foam filled high temperature composite shell set on to aluminum alloy base
Height	10 inches (254mm)
Weight	4 lbs (1.81Kg)
Side Loading	≥8 psi ultimate
Base Plate Shape	Symmetrical ellipse
Fixing Holes	10 x Ø 0.200 inches (5mm) holes

FINISH

Antenna	Urethane Lusterless Black
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Other finish options are available. Please specify required finish 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.