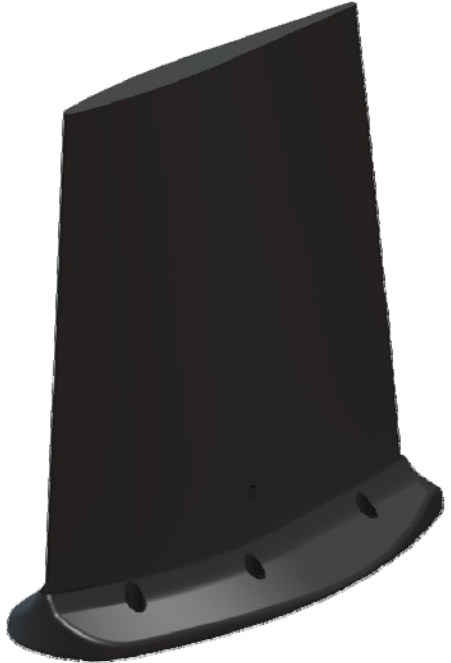




21-50-59
UHF/L-band/Data Link
Airborne Blade Antenna
225 - 512 MHz & 960 - 2500 MHz

FEATURES

- **Passive design-requires no external tuning**
- **Fully Foamed to Provide High Environmental Integrity**
- **Aluminum Alloy Retaining Collar Accepts High Side Loading**
- **Footprint Replacement for AT-1108 & AS3191**
- **Suitable for IFF, TACAN and Data Link**
- **Complies with MIL-STD-810/DO160D**
- **Lightning Protection in accordance with MIL-DTL-2565**



The 21-50-59 is a vertically polarized, omni-directional antenna, compatible with all airborne radios operating within the 225 to 512 MHz frequency range plus Link16, TACAN, IFF, JTIDS and other L/S-band systems.

This wideband, multi-function antenna developed by Cooper Antennas Ltd is particularly suited to tactical military communications. Rugged design ensures reliability in world wide conditions of service on aircraft operating at speeds up to Mach 1.0.

The elements are DC grounded for high voltage transfer protection.

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SPECIFICATIONS

Cooper Antennas Model 21-50-59 UHF/L-band/Data Link Blade Antenna

ELECTRICAL

Frequency	225 - 512 MHz and 960 - 2500 MHz
Gain	225-512 MHz +2dBi average 960-2500 MHz +2dBi average
VSWR	≤ 2.5:1 225 - 400 MHz ≤ 2.75:1 401 - 512 MHz ≤ 2.0:1 960 - 1220 MHz ≤ 2.5:1 1221 - 2500 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 epoxy/fiber glass shell set in aluminum alloy base collar
Height	10 inches (254mm)
Weight	3.5 lbs (1.59Kg)
Side Loading	≥8 psi ultimate
Base Plate Shape	Tear drop
Fixing Holes	6 x Ø 0.200 inches (5mm) holes, counter bore Ø 0.39 inches (9.9mm)

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.