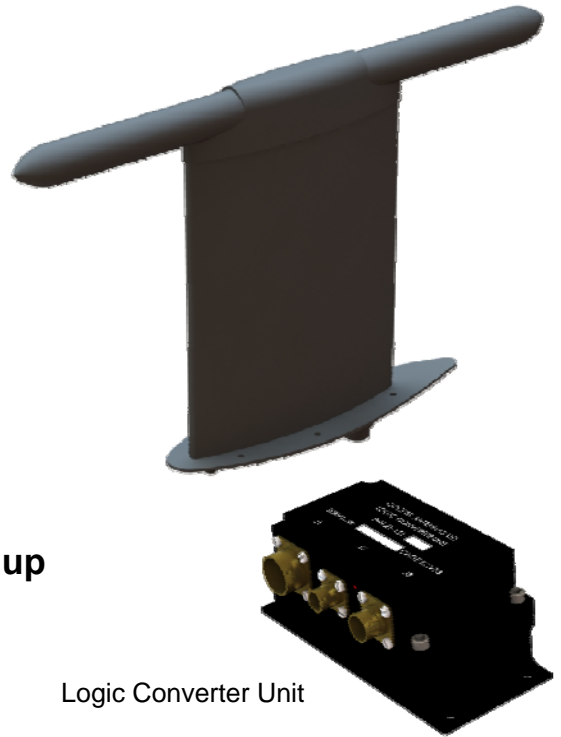




21-150-67
High Gain Digitally Tuned
VHF/UHF Antenna
30 - 512 MHz

FEATURES

- **Frequency Hopping - fast tune**
- **12.1" height**
- **Tuning Controlled by Separate Logic Control Unit (LCU)**
- **LCU's compatible with latest generation multi-mode radios, including ARC201, ARC231 and ARC210**
- **Design to MIL-STD-810 Environmental conditions**
- **Suitable for helicopters and fixed wing aircraft up to Mach 0.95**
- **Footprint mounting holes compatible with AS3191**



Logic Converter Unit

The 21-150-67 tuneable antenna provides exceptional gain in the 30 - 88 MHz SINGARS band compared to similarly sized passive antennas, and maintains optimum performance up to 512 MHz.

Many years of experience in designing solid-state tuned antennas has enabled our engineers to provide the ultimate in performance and reliability for a frequency agile airborne blade. Close attention to environmental, EMI and lightning protection design considerations combined with latest composites structural technology makes the 21-150-67 suitable for helicopters, subsonic and supersonic aircraft under demanding tactical conditions. The separate logic converter unit combines flash memory technology with MIL spec'd power supply in a MIL-STD-461 compliant package.

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SPECIFICATIONS

Cooper Antennas Model 21-150-67

High Gain Digitally Tuned VHF/UHF Antenna

ELECTRICAL

Frequency	30-88 MHz, 108-174 MHz, 225-512 MHz
Gain (typical)	≥ - 10 dBi (30 MHz) ≥ - 5 dBi (88 MHz) ≥ - 3 dBi (108 -174 MHz) ≥ 0 to 2 dBi (225-512 MHz)
VSWR	≤ 2.5:1 30-80 MHz ≤ 2.5:1 108-174 MHz ≤ 2.5:1 225-512 MHz
Impedance (nominal)	50 Ohms
Power	30 Watts
Tuning Time	Less than 50μ seconds
Polarization (nominal)	Vertical (when vertically mounted)
Antenna RF Connector	TNC Female
Antenna DC connector	Multi pin PTO 12-10P to MIL-C-26482
Logic Converter Units	See separate datasheets

MECHANICAL

Antenna Height	12.1 inches (307 mm)
Antenna Mounting Hole	6 x Ø 10:32 UNF holes or similar
Antenna weight	3.9 lbs (1.77kg) max

ENVIRONMENTAL

Temperature	-54°C to +71°C
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FINISH

Antenna	Urethane Lusterless Black
Base Plate	Unpainted

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.