Frequency Agile Digitally Tuned VHF/UHF Antenna 30 - 600 MHz

• Radio silent tuning within typically 60µS

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Latest FPGA logic converter unit technology

FEATURES

- Rugged design has no forward facing or top loading protrusions for ground handling and in-flight safety
- Designed for helicopters and subsonic fixed wing aircraft to MIL-STD-810 environmental conditions
- EMI/EMC design to MIL-STD-461
- -54° to +80°C operating (Antenna)
 - -40° to +80° operating (LCU)
- Footprint compatible with AS3191

The 21-150-136 is the latest in a series of high gain, digitally tuned VHF/UHF antennas providing outstanding performance in the same size, shape and footprint as AS-3191 passive blades. Latest p-i-n diode tuning technology for VHF band combined with a passive susceptance corrected element for the UHF band produces exceptional gain / height performance with excellent omnidirectional azimuth patterns throughout the frequency band. A separate, lightweight logic converter unit (LCU) accepts data from the VHF/UHF radio, and using latest FPGA technology, provides tuning codes for the antenna. Tuning time, which is 100% radio silent, is typically less than 60µ second.

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SPECIFICATIONS

Cooper Antennas Model 21-150-136 Frequency Agile, Digitally Tuned VHF/UHF Antenna

ELECTRICAL	
Frequency	30-88 MHz
	108-174 MHz
	225-600 MHz
Gain (typical)	≥ - 9 dBi (30 MHz)
	≥ - 1 dBi (88 MHz)
	≥ 0 dBi (118 MHz)
	≥ 0 dBi (174 MHz)
	≥ +2 dBi average (225-600 MHz)
VSWR	≤ 2.5:1
Impedance (nominal)	50 Ohms
Power	30 Watts VHF
	50 Watts UHF
Tuning Time	Less than 60µ seconds
Polarization (nominal)	Vertical (when vertically mounted)
Antenna RF Connector	TNC Female
DC connector	D38999/49WB35PN
MECHANICAL	
Height	14.7 inches max
Mounting Hole	6 x Ø 0.234 inch holes
Weight	Antenna 4 Ibs
	Logic Unit 1.7 lbs
ENVIRONMENTAL	
Temperature	-54°C to +80°C
Operating Speed	Up to Mach 0.95
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.