



21-500-01
High Gain Digitally Tuned
VHF/UHF + UHF/FM Antenna
30 - 512 & 512 - 945 MHz

FEATURES

- **Frequency Hopping - fast tune**
- **Lightning protected**
- **Less than 10" height**
- **Tuning Controlled by Separate Logic Control Unit (LCU)**
- **LCU's compatible with all versions of ARC210**
- **Design to MIL-STD-810 Environmental conditions**
- **Suitable for helicopters and fixed wing aircraft**



Logic Converter Unit

The 21-500-01 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. It also provides frequency coverage from 512 to 945 MHz on a separate connector, independent of tuning to operate in the UHF/FM public services band. 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 21-500-01 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 21-500-01 High Gain Digitally Tuned VHF/UHF + UHF/FM Antenna

ELECTRICAL

Frequency	30-88 MHz, 108-174 MHz, 225-512 MHz, 512-945 MHz
Gain (typical)	≥ - 12 dBi (30 MHz) ≥ - 3 dBi (88 MHz) ≥ - 2 dBi (108 MHz) ≥ 0 dBi (174 MHz) + 2 dBi average (225-512 MHz) 0 dBi average (512-945 MHz)
VSWR	≤ 2.5:1 (VHF/UHF) ≤ 2.0:1 (UHF)
Impedance (nominal)	50 Ohms
Power	50 Watts UHF 30 Watts VHF
Tuning Time	Less than 50μ seconds
Polarization (nominal)	Vertical (when vertically mounted)
Antenna RF Connector	TNC Female (VHF/UHF) N-type (UHF/FM)
Antenna DC connector	Multi pin D38999

MECHANICAL

Antenna Height	9.3 inches (236mm) max
Antenna Mounting Hole	10 x Ø 10:32 UNF holes or similar
Antenna weight	4 lbs (1.81kg)

ENVIRONMENTAL

Temperature	-54°C to +71°C
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FINISH

Antenna	Urethane Lusterless Grey
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.