

21-150-10

Combined Passive/Digitally Tuned VHF/UHF Antenna

30 - 960 MHz

FEATURES

- Frequency Hopping fast tune
- Less than 14" height
- Tuning Controlled by Separate Logic
 Control Unit (LCU)
- LCU's compatible with latest generation multi-mode radios
- Designed to MIL-STD-810 Environmental conditions
- Suitable for helicopter and subsonic aircraft
- Footprint drilling compatible with 437S-1H relay tuned antenna



This tuneable antenna provides exceptional gain in the 30-174MHz SINCGARS and VHF band compared to similarly sized passive antennas whilst maintaining optimum performance right up to 512MHz in wide-band mode. In addition, a separate high UHF passive element provides frequency coverage up to 960MHz. Many years of experience in designing solid-state tuned antennas has enabled CAL's team to provide the ultimate in performance and reliability for a frequency agile airborne blade. Close attention to environmental and EMI design considerations combined with latest composites structural technology makes the 21-150-10 suitable for helicopters and subsonic aircraft. The separate logic converter unit combines flash memory technology with MIL spec'd power supply in a MIL-STD-461 compliant package. LCU's can be provided for most current generation digital transceivers.

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SPECIFICATIONS

Cooper Antennas Model 21-150-10 Combined Passive/Digitally Tuned VHF/UHF Antenna

| EL | .EC | ;TF | RIC | ΑL |
|----|-----|-----|-----|----|
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Frequency 30-88 MHz

108-174 MHz 225-512 MHz

550-960 MHz

Gain (typical) ≥ - 7.5 dBi (30 MHz)

≥ - 3 dBi (88 MHz) ≥ - 1 dBi (118 MHz) ≥ 0 dBi (174 MHz)

+2 dBi average (225-512 MHz) 0 dBi average (550-960 MHz)

VSWR ≤ 2.5:1

Impedance (nominal) 50 Ohms

Power 50 Watts VHF

100 Watts UHF (Lo) 100 Watts UHF (Hi)

Tuning Time Less than 60µ seconds

Polarization (nominal) Vertical (when vertically mounted)

Antenna RF Connector TNC Male VHF

N Type Female UHF (Lo)
TNC Female UHF (Hi)

DC connector PTO2 12-10P LCU (for ARC210 Gen V) 21-151-10

MECHANICAL

Height 13 inches max (330 mm max)

Mounting Hole 8 x Ø 10:32 UNF holes or similar

Weight Antenna 6.5 lbs (2.9kg)

Logic Unit 1.7 lbs (0.8kg)

ENVIRONMENTAL

Temperature -65°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.