



**20-20-05  
VHF ATC Antenna  
118 to 137 MHz**

## FEATURES

- **Covers VHF ATC band 118 to 137 MHz**
- **Robust composite construction**
- **Lightweight**
- **Low profile, less than 1.35m (53.15 inches) height**
- **Omni-directional azimuthal radiation pattern**
- **100 Watts power handling**
- **Excellent Gain with high efficiency**
- **CECOM-type mounting base**



Covering the VHF ATC frequency band 118 to 137 MHz, the 20-20-05 is a lightweight antenna intended for fixed base station ground use.

Construction uses epoxy glass composite structural tubes, with unique internal strip line radiating elements bonded into a machined aluminum base.

Designed as an elevated end fed dipole, the design is tolerant of different mounting circumstances such as tripod, shelter, vehicle or mast.

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Cooper Antennas Ltd is Accredited to: ISO9001, AS9100, ISO14001 and MAA Approved

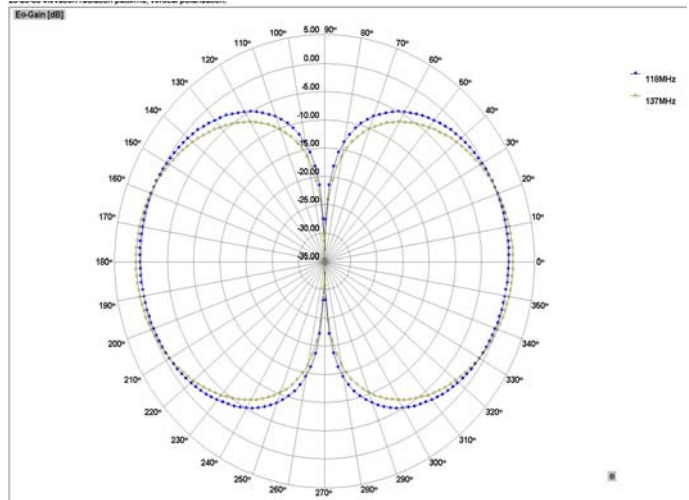
# SPECIFICATIONS

## Cooper Antennas Model 20-20-05

### VHF ATC Antenna

#### ELECTRICAL

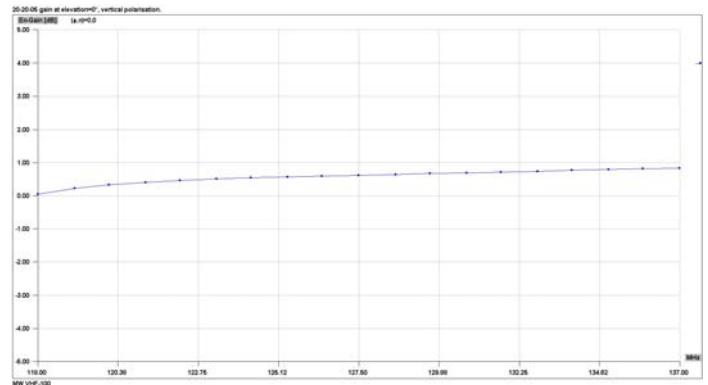
<b>Frequency</b>	<b>118-137 MHz</b>
<b>Gain (typical)</b>	<b>0 dBi minimum</b>
<b>VSWR</b>	<b>≤ 2.25:1</b>
<b>Impedance (nominal)</b>	<b>50 Ohms</b>
<b>Power</b>	<b>100 Watts</b>
<b>Polarization</b>	<b>Vertical</b>
<b>Radiation</b>	<b>Omni directional in azimuth plane</b>
<b>Antenna RF Connector</b>	<b>N Female</b>



Radiation Pattern

#### MECHANICAL

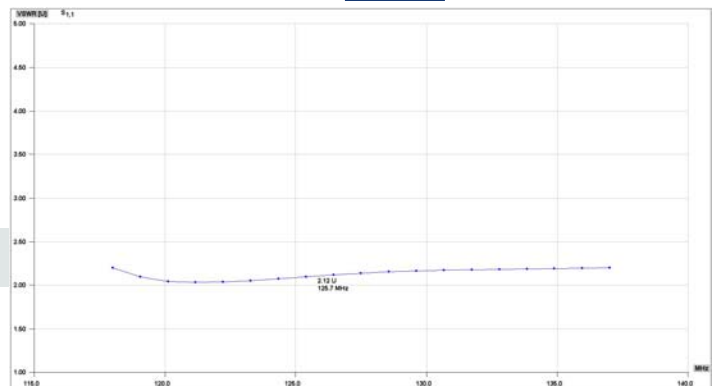
<b>Antenna Construction</b>	<b>Composite epoxy with aluminum alloy base collar</b>
<b>Height</b>	<b>53.15 inches max (1350mm)</b>
<b>Weight</b>	<b>4.5 lbs max (2kg)</b>
<b>Element Diameter</b>	<b>2.25 inch max (57mm)</b>
<b>Base Plate Shape</b>	<b>4 hole CECOM</b>



Gain

#### FINISH

**Urethane Lusterless Black**  
 Other finish options are available.  
 Please specify finish required when ordering.



VSWR

**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.**