



21-50-04

**Combined Sonobuoy Receive and
UHF Command Blade Antenna
136 to 175 MHz + 291.5 MHz \pm 0.5**

FEATURES

- **High Strength Composite Blade**
- **Low Side Area, Low Drag**
- **Suitable for helicopters and aircraft operating up to at least 350 knots**
- **Environmental Performance to MIL-STD-810**
- **Radiating element foamed-in-place for structural integrity and prevention of moisture ingress.**
- **Integrated test probe**



The 21-50-04 is a high strength, low drag VHF/UHF blade antenna. It comprises a top loaded symmetrical diamond shape blade with internal foamed-in-place radiating and matching elements.

An N-type V/UHF connector and SMA test connector are fitted to the aluminum base plate and the antenna is DC grounded for P-static protection.

Frequency of operation covers full VHF Sonobuoy receive and UHF transmit (Command). The antenna can handle up to 80 Watts of UHF power

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

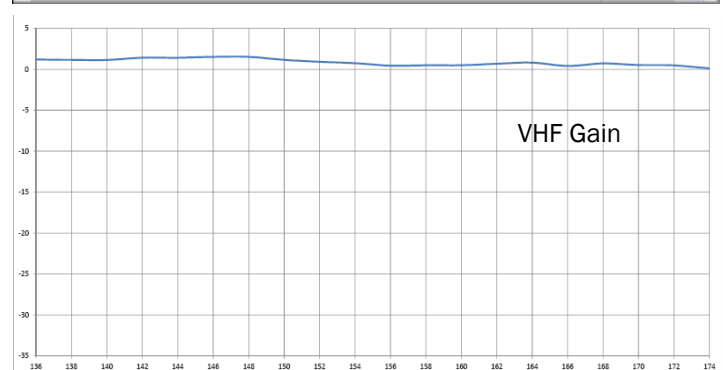
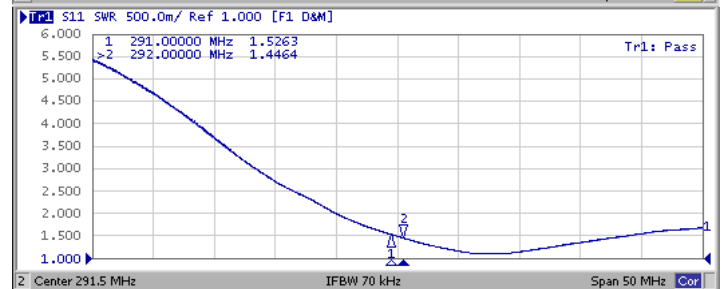
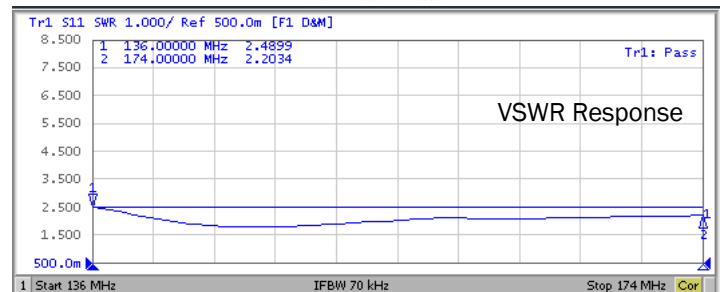
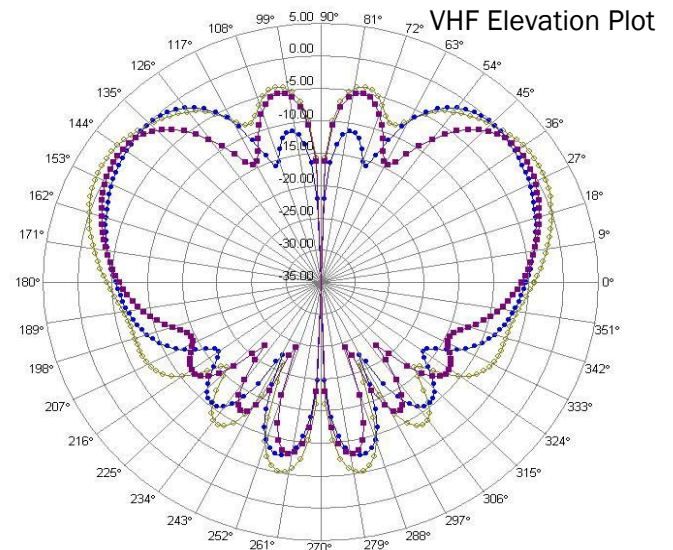
SPECIFICATIONS

Cooper Antennas Model 21-50-04

Combined Sonobuoy Receive and UHF Command Blade Antenna

ELECTRICAL

Frequency	136 MHz to 175 MHz VHF 291 MHz to 292 MHz UHF
Gain (typical)	1 dBi average, 0 dBi min VHF +3 dBi UHF
VSWR	≤2.5:1 VHF ≤2.0:1 UHF
Impedance (nominal)	50 Ohms
Power	80 Watts CW (UHF)
Polarization	Vertical (when mounted vertically)
Radiation	Omni directional in azimuth plane, elevation as plot, UHF pattern similar
Test Probe	Decoupled nominally -20 dB on main signal
Antenna RF Connector	N Female VHF/UHF
Test Probe Connector	SMA Female



MECHANICAL

Antenna Shell Type	Glass loaded thermoplastic blade in aluminum alloy base collar with aluminum top loading disc
Height	10 inches (254mm)
Weight	2.5 lbs max (1.13kg)
Fixing Holes	6 holes 0.2 inches dia. nominal - replaces AT256

FINISH

Lusterless Gray Urethane

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.