



**21-40-37**  
**S/C Band Airborne Blade**  
**Antenna**  
**2400 to 5900 MHz**

## FEATURES

- **Covers wireless and datalink frequencies from 2.4 to 5.9 GHz**
- **Low profile, diamond shaped blade**
- **Designed to meet MIL-STD-810**
- **Fully Environmentally sealed**
- **Lossless matching - high RF efficiency**
- **Nominally omnidirectional radiation pattern**



The 21-40-37 is a wide frequency S/C band airborne blade antenna designed for fixed and rotary wing aircraft. It is a direct footprint replacement for AT256 UHF Blade antennas.

Electrical design is based on a 2-dimensional, monocone which is of high efficiency and provides nearly omnidirectional azimuthal radiation.

Mechanical design uses an advanced, glass-loaded thermoplastic radome with an integral radiating element, all foamed-in-place for structural and environmental integrity.

The blade is built into a contoured injection moulded base collar and has a centrally mounted, N-type female coaxial connector.

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# SPECIFICATIONS

## Cooper Antennas Model 21-40-37 S/C Band Airborne Blade Antenna

### ELECTRICAL

**Frequency** 2400 - 5900 MHz

**Gain (average)** +2 dBi

**VSWR**  $\leq 2.5:1$

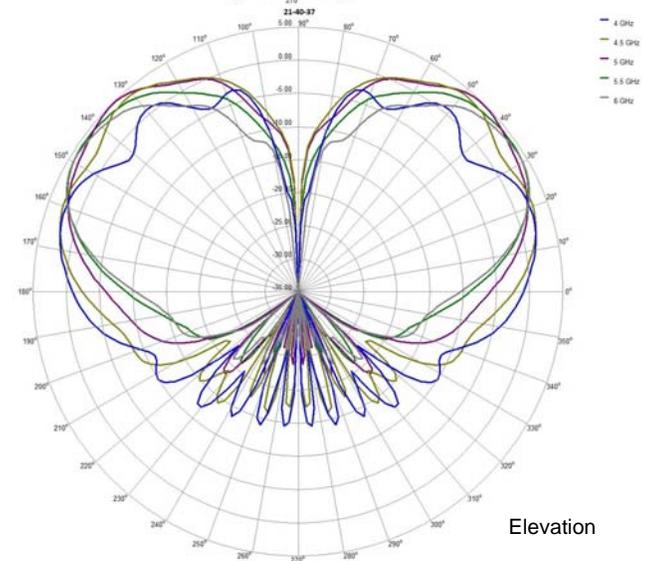
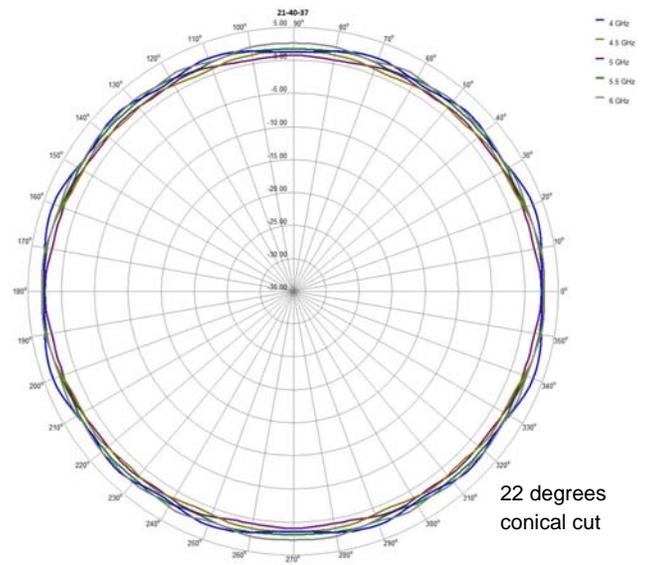
**Impedance (nominal)** 50 Ohms

**Power** 40 Watts CW

**Polarization** Vertical

**Radiation Pattern** Omni-directional in azimuth, similar To stub in elevation

**Antenna RF Connector** N-type Female



### MECHANICAL

**Element Height** 2.1 inches (53mm)

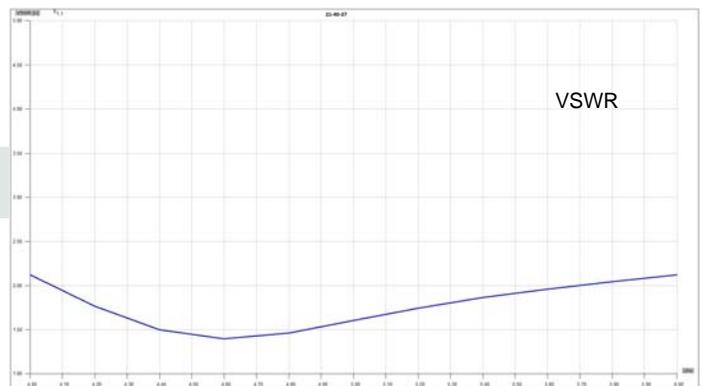
**Weight** 0.4 lbs (0.182kg)

**Fixing Holes** 6 x  $\varnothing$  0.203 inch (5.2mm) holes, counter bored  $\varnothing$  0.43 inch (10.9mm)

### FINISH

**Antenna** Lusterless Black 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.