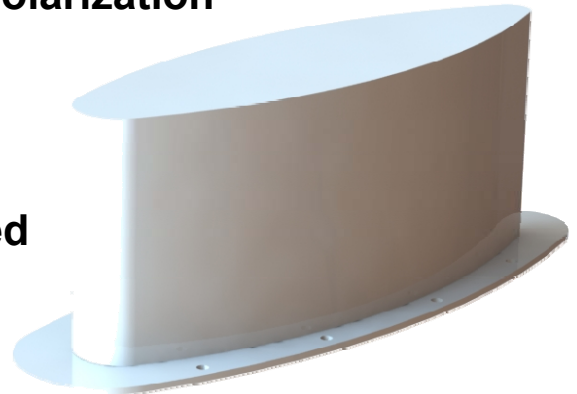




21-40-205
Satcom Antenna
for Thuraya
1525-1661 MHz

FEATURES

- **Left Hand and Right Hand Circular Polarization**
- **Omnidirectional in azimuth**
- **Provides 90% sky coverage**
- **DC grounded design**
- **Environmentally sealed and designed to DO160 standards.**
- **Rotary and fixed wing operations**



The 21-40-205 is a 'high gain' L-band satellite communications antenna designed for use with the Thuraya and Inmarsat satellite system. Electrical design comprises two quadrifilar helix elements, elevated above the mounting base to provide down to horizon coverage over the frequency range 1525 to 1661 MHz. The antenna element is encased in a radome, intimately bonded to an aluminum baseplate having two TNC female coaxial connectors. The complete assembly is foam-filled for reliability in Worldwide conditions of service on helicopters, low speed fixed wing aircraft and UAV's.

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SPECIFICATIONS

Cooper Antennas Model 21-40-205 Satcom Antenna for Thuraya and Inmarsat

ELECTRICAL

Frequency	1525 to 1661 MHz
Gain	≥ 0 dBic for 15° - 70° elevation ≥ -2 dBic for 70° - 90° elevation
Axial ratio	< 5 dB for 70° - 90° elevation < 15 dB for 15° - 70° elevation
VSWR	≤ 1.7:1
Impedance (nominal)	50 Ohms
Power handling	Receive only
Polarization	LHCP for J1 and RHCP for J2
Radiation Pattern	Omni-directional in azimuth
Antenna RF Connector	2 x TNC Female
Lightning	DC Grounded

MECHANICAL

Height	4.4 inches max (112 mm)
Weight	2.2 lbs max (1 kg)
Baseplate shape	Teardrop
Fixing Holes	8 x Ø 5.3

FINISH

Antenna	Gloss White
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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.