



21-30-29M
NSN 5985-01-508-7578
UHF SATCOM Antenna
225 to 400 MHz

FEATURES

- **Suitable for vehicular, ship borne and shelter installations**
- **Robust Construction**
- **Hemispherical radiation pattern coverage with separate Hi and Lo angle elements**
- **All Weather operation**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **Magnetic mounting plate**



The 21-30-29M is a magnetic mounted combined Hi-Lo angle UHF Satcom Antennas designed for installation on military vehicle roof, shelter or housing. The 21-30-29M has the coaxial connectors mounted on the side of the antenna base.

The antennas consist of two co-located elements; a circularly polarized cross-dipole and a linearly polarized broadband monopole. The two elements have separate RF feeds, and by manual selection of either, full hemispheric pattern coverage is provided. The Lo angle mode is intended for elevation angles up to about 45° and the Hi angle for approximately 45° to zenith.

Construction is from rugged fiber glass, foam-filled for structural integrity and prevention of moisture ingress with aluminum alloy dipole elements and base housing.

Cooper Antennas Ltd for non-USA customers

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SPECIFICATIONS

Model 21-30-29M

UHF SATCOM Antennas

ELECTRICAL

Frequency	Lo Angle : 225 - 400 MHz Hi Angle : 225 - 400 MHz
Gain (typical)	Lo Angle: +3 dBiL Hi Angle: +8 dBiC
VSWR	Lo Angle: ≤ 3.0:1 Hi Angle: ≤ 1.5:1
Impedance (nominal)	50 Ohms
Power	200 Watts CW
Polarization	Lo Angle: Linear Hi Angle: Right Hand Circular (maximum at zenith)
Antenna RF Connector	Lo Angle: TNC Female Hi Angle: N Female
Operational Temperature	- 66°F (- 54 °C) to + 160°F (+71°C)

MECHANICAL

Dipole span	19.9 inches (505 mm)
Overall Height	12 inches (305 mm)
Weight	2.75 lbs (1.25 kg)

FINISH

Standard	Desert Sand
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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.**