



20-30-29
Magnetically Mounted
UHF SATCOM Antenna
225 to 400 MHz

FEATURES

- **Instant installation on Steel roofs**
- **Suitable for vehicular, fixed and mobile applications**
- **High integrity magnetic mount**
- **Robust Construction**
- **Hemispherical radiation pattern coverage with separate high and low angle elements**
- **All Weather operation**
- **200 Watts CW Power handling**
- **Designed to MIL-STD-810 environmental requirements**
- **CECOM 4 hole mounting plate for non-ferrous platforms**



The 20-30-29 is a combined Hi-Lo angle UHF Satcom Antenna designed for magnetic mounting on a ferrous military vehicle roof, shelter or housing and on non ferrous platforms via a 4 hole CECOM mounting plate, having four 7/16 inch dia. holes on 4.5 inch circle.

The antenna comprises two co-located elements; a circularly polarized “turnstiled” 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 low angle is intended for elevation angles up to about 45° and the high angle for approximately 45° to zenith.

Construction is from rugged fiberglass, foam-filled for structural integrity and prevention of moisture ingress with aluminum alloy dipole elements and base housing. A powerful magnet sits inside the base housing, which also provides support for the two coaxial connectors.

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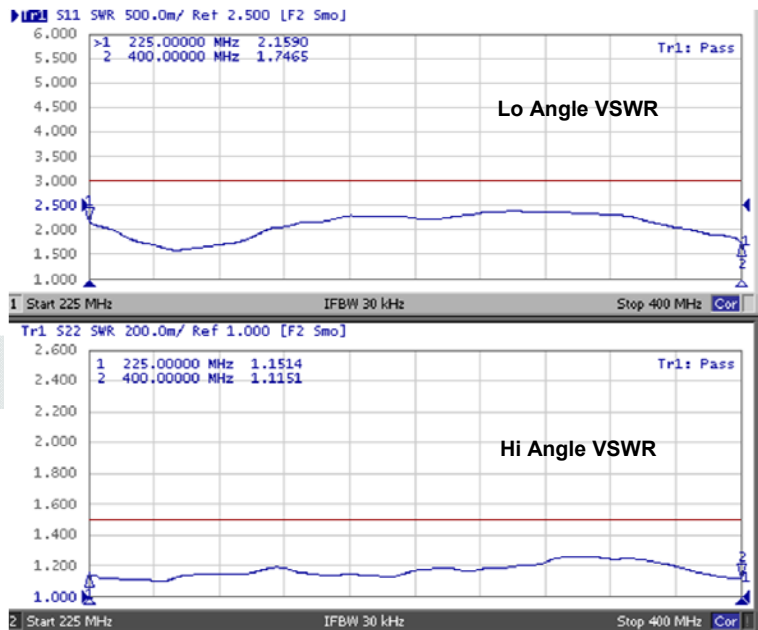
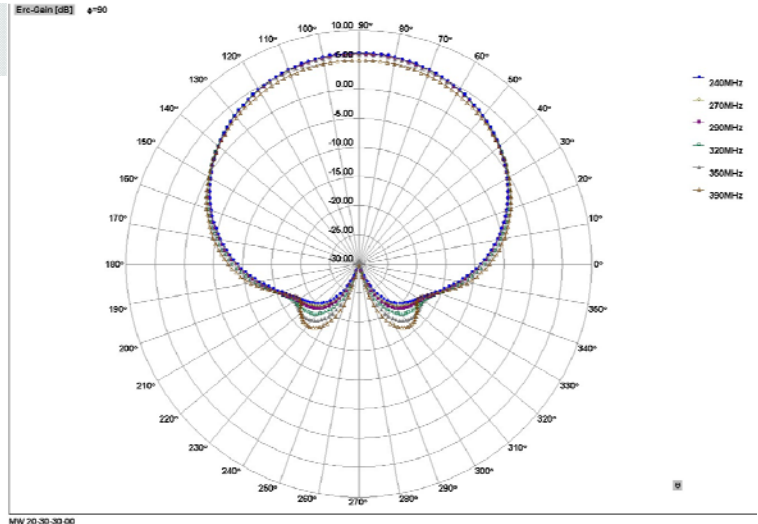
SPECIFICATIONS

Cooper Antennas Model 20-30-29

Magnetically Mounted UHF SATCOM Antenna

ELECTRICAL

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



MECHANICAL

Overall height:	12.5 inches (318mm)
Element height:	11.5 inches (292mm)
Dipole span:	20 inches (508mm)
Weight:	4.2 lbs (1.9kg)

FINISH

Standard : FED-STD-595, 33446 Matt Desert Tan 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.