



20-30-30
UHF SATCOM Antenna
225 to 400 MHz

FEATURES

- **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**
- **CECOM 4 hole mounting plate**



The 20-30-30 is a combined Hi-Lo angle UHF Satcom Antenna designed for installation on military vehicle roof, shelter or housing via a 4 hole "CECOM" mounting plate.

The antenna comprises 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 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.

Both RF connectors are located at the base.

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

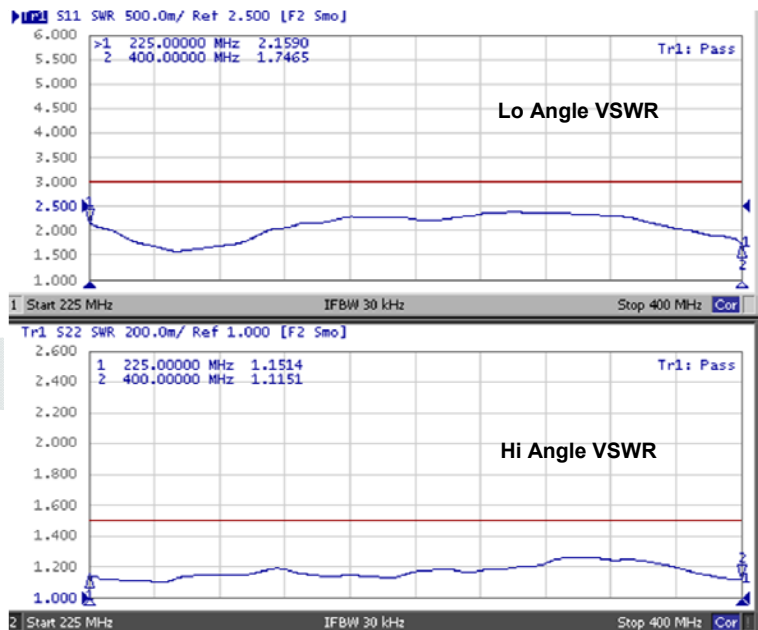
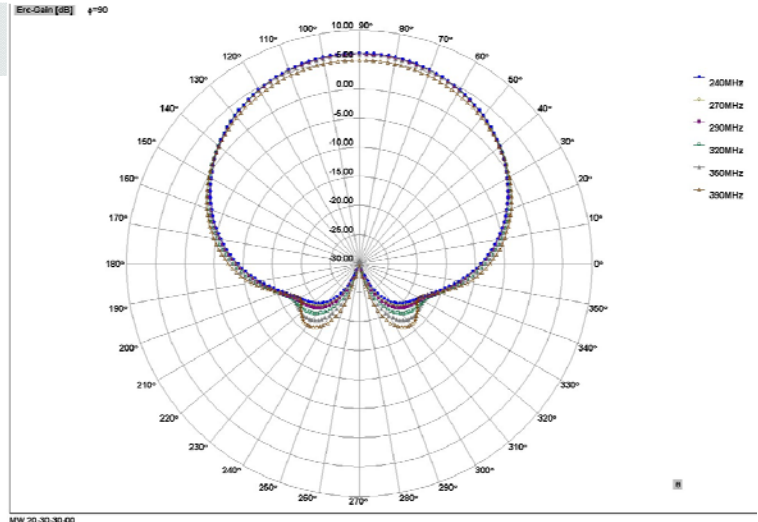
SPECIFICATIONS

Cooper Antennas Model 20-30-30

UHF SATCOM Antenna

ELECTRICAL

Frequency Hi Angle:	240 - 400 MHz
Frequency Lo 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)
Dipole span:	20 inches (508mm)
Weight:	2.6 lbs (1.2kg)

FINISH

Standard : Urethane Lustreless Black

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.