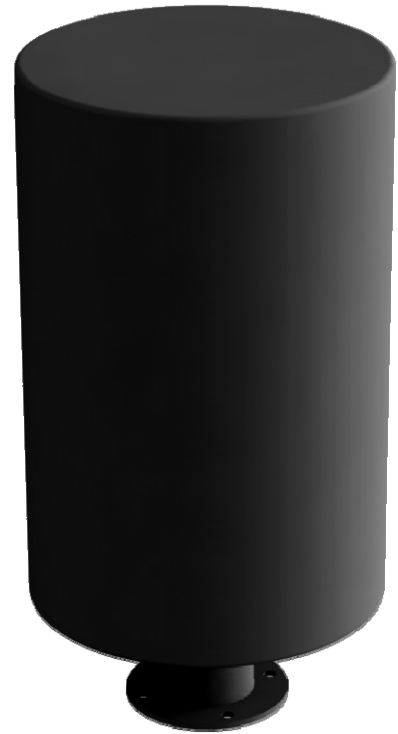




**20-50-20**  
**Ultra Wide Band**  
**UHF/L-Band Antenna**  
**225 - 2000 MHz**

## FEATURES

- **Low height, less than 24"**
- **Fits CECOM 4-hole mounting**
- **Continuous frequency coverage**
- **Typical gain +1 dBi thru band**
- **100 Watts power handling**
- **Omnidirectional in Azimuth**
- **Ground Plane independent**
- **Rugged Construction**
- **Designed to MIL-STD-810**



The 20-50-20 is a very wide band, ground plane independent UHF/L Band antenna intended for vehicular, fixed base or ship borne use. When used with CAL's 20-50-55 tripod, it can also act as a quick erect, stand alone base station antenna.

The design comprises a wide band, bi-cone radiating element contained within a high strength glass epoxy radome, which in turn is fitted with a metal CECOM mounting plate. Precision machined internal elements insure low VSWR and approximately constant gain throughout the wide frequency band. The antenna is filled with closed cell foam and fully sealed for environmental protection in worldwide conditions of service.

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

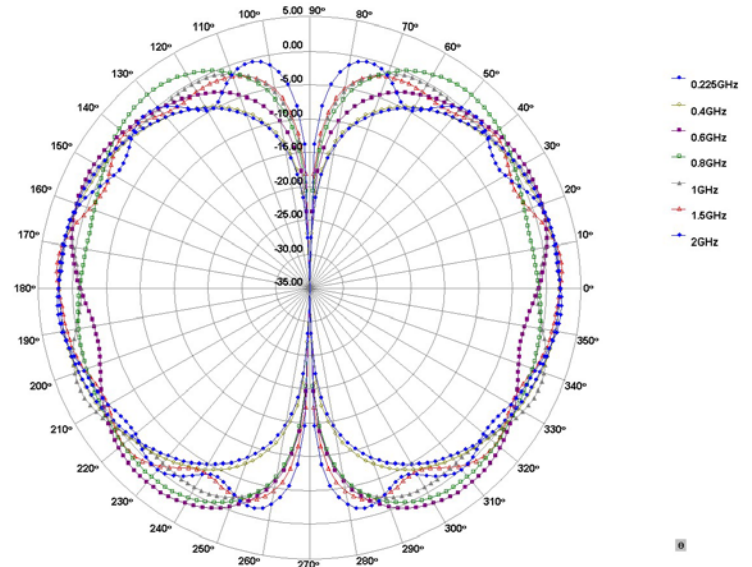
# SPECIFICATIONS

## Cooper Antennas Model 20-50-20

### Ultra Wide Band UHF / L-Band Antenna

#### ELECTRICAL

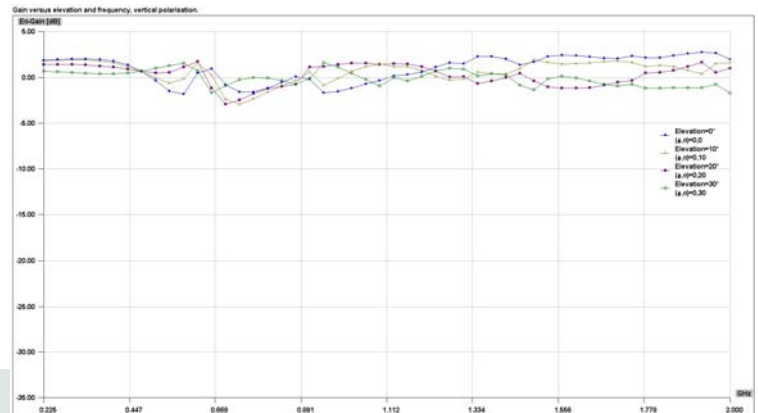
Frequency	225 MHz to 2000 MHz
Gain (typical)	+1dBi average (see graph)
VSWR	≤2.5:1
Impedance (nominal)	50 Ohms
Power (average)	100 Watts
Polarization	Vertical (when mounted vertically)
Radiation	Omni directional in azimuth. Elevation see plot
Connector	N-type female



Elevation

#### MECHANICAL

Antenna Body	Glass epoxy with internal elements foamed in place
Height	23 inches (584mm)
Base plate	CECOM base having four Ø 7/16 inch holes on 4.5 inch circle
Diameter	12 inches (304mm)
Weight	10 lbs nominal (4.5kg)



Gain

#### FINISH

Matt 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.