



20-50-07-2
UHF, EPLRS & L-Band Spring Mounted
Dipole Antenna with Detachable
Element
225 to 450 & 1250 to 2000 MHz

FEATURES

- **Low silhouette**
- **Spring mounted - can be tied down for stowage**
- **Robust, weather-proof element detachment joint just above spring**
- **Fits standard CECOM 4 hole mount**
- **Designed to sustain 25 mph “Oak Beam” Test**
- **100 Watts CW Power**
- **Omni-directional Pattern in azimuth**
- **Complies with MIL-STD-810 Environmental and MIL-S-901 shock**
- **Ground Plane independent**



The 20-50-07-2 is a vertically polarized, omni-directional dipole UHF/L-Band antenna.

It is compatible with radios operating in the 225 to 450 MHz and 1250 to 2000 MHz frequency ranges. The antenna can handle 100 Watts of power, has separate UHF and L-Band coaxial connectors and requires no external tuning.

The antenna has a single radiating element fed via an internal diplexer providing high isolation. The antenna element is a cylindrical dipole encased in high strength fiberglass tubing which provides insulation in the event of accidental contact with 10kV RMS (minimum) high voltage power lines.

The dipole radiating element is ground plane independent and provides maximum gain at the horizon. The dipole is located above the spring.

Rugged design ensures reliability in arctic, jungle or equatorial desert environments. The antenna is spring mounted for vehicular use and has a mounting base compatible with standard CECOM mounting brackets, having four 7/16 inch dia. holes on a 4.5 inch circle.

It has the benefit of allowing the main element to be detached for ease of stowage and transportation.

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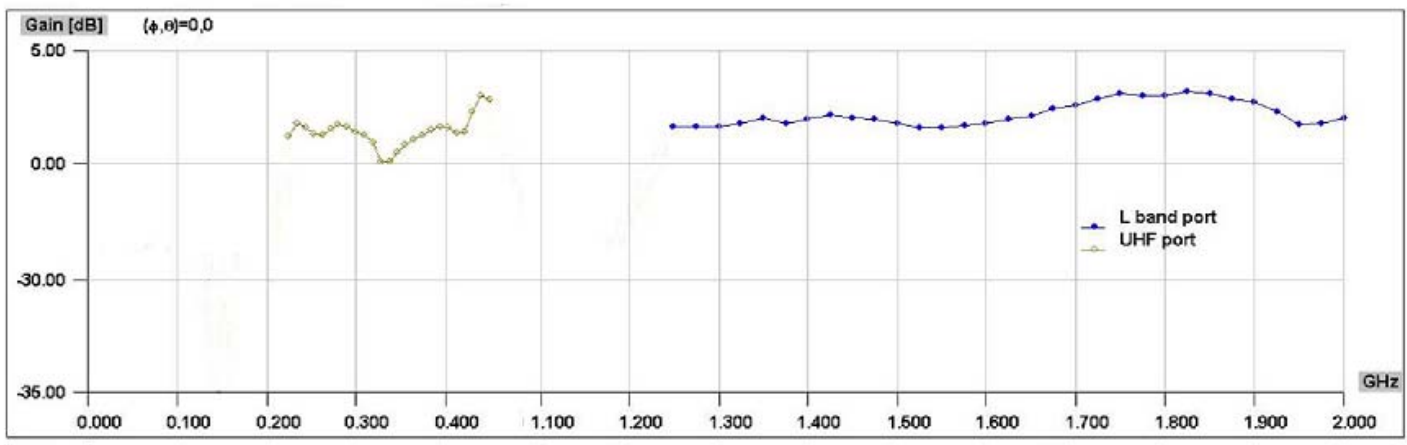
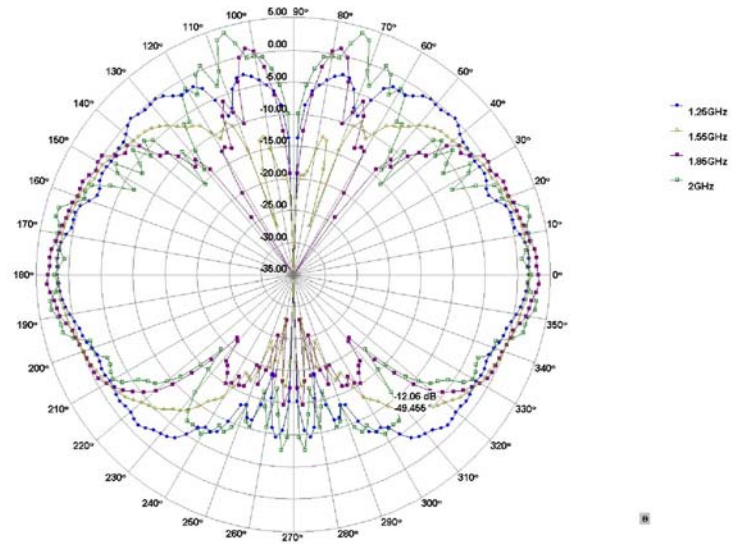
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SPECIFICATIONS

Cooper Antennas Model 20-50-07-2 UHF & L-Band Spring Mounted Antenna

ELECTRICAL		MECHANICAL	
Frequency	225 -450 MHz 1250 - 2000 MHz	Overall Height from Mount	42.5 inches (1080mm) max.
VSWR	UHF ≤ 3:1 L-Band ≤ 2.5:1	Element Diameter	3 inches (76mm)
Gain at horizon	+1.5 dBi Average (L-Band) +1 dBi Average (UHF)	Weight	9.75 lbs (4.42kg) max.
Isolation	≥ 50dB between elements		
Impedance	50 Ω		
Power	100 Watts CW (UHF), 1Kw peak (L-Band)		
Polarization	Vertical		
Antenna RF Connectors	N Female (UHF) TNC Female (L-Band)		



FINISH

Finish MIL-DTL-14072E(CR), MIL-DTL-53039, 383 Green

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.