

CA-3096 AS-2811/SRC

BROADBAND VERTICAL DIPOLE ANTENNA

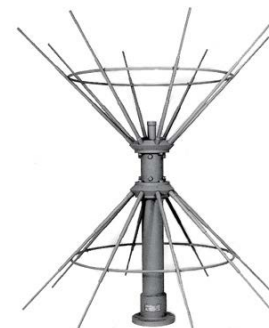
Model CA-3096 is a broadband, base-mounted dipole antenna which provides vertically polarized, omnidirectional coverage over the 90 – 500 megahertz frequency band for power levels to 250 watts. The rugged unit provides reliable operation in extreme military shipboard and ground station environments.

The antenna is a balanced, center-fed biconical dipole which does not require a groundplane or counterpoise for operation. The zenith pattern is a figure-eight with maximum signal intensity along the horizon. The input voltage standing wave ratio, on 50 ohms, is less than 2.8:1 over the entire operating range.

All major components of the radiator and support structure are aluminum. The central feed and transformer sections are enclosed and sealed within a weatherproof epoxy fiberglass cover. The radio frequency input connector is Type N receptacle recessed within the base.

CA-3096 has been designed to meet the high impact shock requirements of MIL-S-901C, Grade A; nuclear air blasts of 10 psi peak overpressure; MIL-STD-167, Type 1; and all service conditions of MIL-E-16400F for class 2 equipment.

ELECTRICAL	
Frequency range	90 – 500 MHz
VSWR	2.8:1 max
Impedance	50 Ohms
Polarization	Vertical
Azimuth coverage	Omnidirectional
Zenith coverage	Figure-eight dipole pattern with max at horizon
Power handling	250 W
MECHANICAL	
Input connector	Type N receptacle
Height	
Radiator	35.68 in.
Overall	38.5 in.
Diameter	34.5 in. max
Mounting	Base flange with six 0.40 in. diameter holes on a 4.75 in. diameter bolt circle
Weight	21 lbs
Finish	Gray epoxy polyamide
ENVIRONMENTAL	
Vibration	MIL-STD-167, type 1
Shock	MIL-S-901C, grade A
Nuclear air blast	10 psi peak overpressure
Service	MIL-E-16400F, class 2



KEY FEATURES

- > Rugged design
- > Broadband functionality that can handle up to 250W of power
- > Ideal for ground and shipboard applications
- > Meets MIL-S-901C, MIL-STD-167 and MIL-E-164000F standards

For further details and specifications, contact the factory at antenna.info@L3Harris.com

CA-3096 AS-2811/SRC Broadband Vertical Dipole Antenna

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