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CA-1181 AS-4163/URC DUAL-CHANNEL UHF ANTENNA

The Model CA-1181 antenna is a dual-channel ultra-high frequency (UHF) antenna designed for shipboard use. The antenna provides unobstructed, interference-free operation for dual-channel communications over the 225 to 400 megahertz frequency range. The assembly is comprised of two independent broadband elements that are housed within an epoxy fiberglass radome with an aluminum base and top flange. A feedthrough cable runs from the base to the top of the antenna so that an AS-390 or other antenna type can be mounted on the upper flange. An adapter kit is provided to facilitate the top mounting provision. Type N female connectors are provided for each end of the feedthrough radio frequency (RF) cable and at the antenna base for the two UHF input connectors.

The CA-1181 antenna is designed to meet the shock requirements of MIL-S-9010, the vibration requirements of MIL-STD-167-1, type I and II, and the environmental requirements of MIL-E-16400H.

ELECTRICAL	
Frequency range	225 – 400 MHz
VSWR	3.0:1 max, 3.0:1 max
Gain	2.0 dBi
Impedance	50 Ohms
Polarization	Horizontal
Radiation pattern	
Azimuth beam width	Omni ± 1 dB
Elevation beam width	70°
Beamtilt	0°
Power handling	1.0 kW
MECHANICAL	
Connector	Type N receptacle
Weight	65 lbs
Height	101 in
Diameter	5.18 in
Mounting	
Base	13.5 in. flange with eight holes 0.875 on 11.75 in. bolt circle
Top	6.88 in. flange with twelve 5/16 – 18 threaded holes on 6.12 in. bolt
ENVIRONMENTAL	
Wind	120 mph, no ice



KEY FEATURES

- > Ideal for use in marine shipboard type applications
- > Rugged design
- > Includes adapter kit
- > Meets MIL-STD-167-1, MIL-S-9010 and MIL-E-16400H standards

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

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Nonexport-controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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1025 W. NASA Boulevard
Melbourne, FL 32919