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C212-1-1 UHF/L DUAL-BAND ANTENNA

The C212-1-1 antenna is designed for military line-of-sight communications in the ground-mobile environment. The C212-1-1 is a unique dual-band design wherein an ultra-high frequency (UHF) aperture and L-band aperture are vertically arranged in such a manner that they operate essentially independent of one another. This vertical arrangement provides ideal radiation pattern performance and superior isolation versus independent apertures. It provides UHF (225-450 megahertz) coverage and L-band (1.2-2.0 gigahertz) coverage. The UHF and L-band apertures of the C212-1-1 are vertical arrays that are designed to provide high-gain at or near the horizon while providing omnidirectional coverage in the azimuth plane. The UHF array consists of two dipoles phased to produce maximum gain on the horizon while the L-band array consists of four dipoles phased to produce maximum gain five degrees above the horizon. Upon customer request, the L-band phasing can be altered to remove the beam-tilt and focus the beam at the horizon. The C212-1-1 is constructed of a high-strength radiating element structure and is fitted to a spring assembly that allows the antenna to absorb shocks yet return to its proper vertical orientation for operation.

ELECTRICAL	
Frequency range	Band 1: 225-450 MHz Band 2: 1.2-2.0 GHz
VSWR	Band 1: 3.0:1 max Band 2: 2.75:1 max
Gain	Band 1: +2.5 dBi nominal Band 2: +5 dBi nominal
Impedance	50 ohms
Beam-tilt	Band 1: 0 degrees Band 2: +5 degrees
Isolation	25dB min
Polarization	Vertical
MECHANICAL	
Connectors	Band 1: Type N female (UHF) Band 2: TNC female (L-band)
Finish	Epoxy CARC 383 green
Mounting interface	CECOM A3207507
ENVIRONMENTAL	
Operating temp	-40 to +65 C



KEY FEATURES

- > Multifunction (UHF/L bands)
- > Antenna is ideal for ground-mobile applications
- > Antenna spring assembly allows for shock absorption
- > Meets communications-electronics command mounting interface

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

C212-1-1 UHF/L Dual-Band Antenna

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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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