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C209-1-1 VHF/UHF DUAL-BAND ANTENNA

The C209-1-1 antenna is designed for military line-of-sight communications in the ground-mobile environment.

The C209-1-1 is a unique dual-band design wherein the entire structure radiates as a monopole at very high frequencies (VHF) (providing maximum achievable efficiency), while a dipole embedded in the VHF structure provides ultra-high frequency (UHF) coverage. This vertical arrangement also provides ideal radiation-pattern performance and superior isolation versus independent apertures. Radiation patterns are omnidirectional in azimuth with peak gain levels centered at the horizon. The C209-1-1 provides complete VHF (SINCGARS) coverage and UHF (225-450 megahertz) coverage.

The C209-1-1 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	30-88 MHz
Band 2	225-450 MHz
VSWR	
Band 1	4.0:1 max
Band 2	3.0:1 max
Gain	
Band 1	-14 dBi average
Band 2	0 dBi nominal
Impedance	50 ohms
Polarization	Vertical
Beam-tilt	
Band 1	0 degrees
Band 2	0 degrees
Isolation	25 dB min
MECHANICAL	
Connectors	
Band 1	VHF: BNC female
Band 2	UHF: TNC female
Finish	Epoxy CARC 383 green
Mounting interface	CECOM A3207507
ENVIRONMENTAL	
Operating temp	-40 to +65 C



KEY FEATURES

- > Multifunction (VHF/UHF bands)
- > Ideal for ground-mobile applications
- > Spring assembly allows for shock absorption
- > Meets communications-electronics command mounting (CECM) interface

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