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# C214-1-1 L-BAND VERTICAL ARRAY ANTENNA

The C214-1-1 antenna is designed for military line-of-sight communications in the ground-mobile environment.

The C214-1-1 is a high-gain vertical dipole array that provides broadband coverage across the L-Band frequencies. The C214-1-1 aperture is a vertical dipole array that is designed to provide high peak-gain levels while still providing omnidirectional coverage in the azimuth plane. The apertures within the array are fed such that the elevation beam is tilted to 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 C214-1-1 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	
<b>Frequency range</b>	
Band 1	1.2-2.0 GHz
<b>VSWR</b>	
Band 1	2.5:1 max.
<b>Gain</b>	
Band 1	+6 dBi nominal
<b>Impedance</b>	
	50 ohms
<b>Polarization</b>	
	Vertical
<b>Beam-tilt</b>	
Band 1	+5 degrees
<b>Isolation</b>	
	n/a
MECHANICAL	
<b>Connector</b>	
Band 1	TNC female
<b>Finish</b>	
	Finish
<b>Mounting interface</b>	
	10 G's
ENVIRONMENTAL	
<b>Operating temp</b>	
	-40 to +65 C



## KEY FEATURES

- > Gain peak centered at 5° above the horizon
- > Omnidirectional in azimuth
- > Extremely rugged construction
- > Ground mobile design

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

### C214-1-1 L-Band Vertical Array Antenna

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Nonexport-controlled Information

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