

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Type N Male and Black G10 Radome

LCANOM1171



Features

- Bifilar Omni Antenna
- 4.4 GHz to 5.9 GHz
- 3.75 dBic Gain
- 3 Turn (3T) Bifilar
- LHCP
- Type N Male
- Black G10 Radome
- Made in USA

Applications

- Ground-to-Air Communication
- Unmanned Vehicles
- Autonomous Vehicles
- Video Relay
- Rugged, Harsh, Hostile Environments

Description

L-com's LCANOM1171 is a bifilar omni antenna designed for ground-to-air vehicle communication, including manned and unmanned aircraft. This omnidirectional antenna has a type N male connector. Our single-band antenna can operate at frequencies ranging from 4.4 to 5.9 GHz. This antenna is stocked to be readily available for same-business-day shipment.

This C-band antenna with LHCP polarization has a maximum input power of 20 Watts. Our bifilar antenna comes with a black G10 fiberglass radome of 0.812-inch diameter that provides a protective covering without compromising the antenna system's performance. The LCANOM1171 single-band antenna from L-com has a maximum gain of 3.75 dBic. This antenna has an overall length of 6.83 inches, a height of 0.812 inches, and a weight of 0.15 lbs.

Our bifilar antenna has a vertical beam width of 163 degrees and a horizontal beam width of 360 degrees at 3 dB. This LHCP polarized C-band antenna has a maximum input VSWR of 2:1 and is suitable for aerial vehicle communications and satellite communications. The LCANOM1171 omnidirectional antenna has an impedance of 50 Ohms. Additional dimensions and specifications for this antenna are on our downloadable PDF datasheet.

L-com has one of the largest in-stock selections of single-band omnidirectional antennas for international and domestic orders. Make your online purchase right now to take advantage of our same-business-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal bifilar antenna for your requirements.

Configuration

Design	Bifilar
Application Band	C-band
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	LHCP
Connector Type	N Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,400		5,900	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain			3.75	
Horizontal (Azimuth) HPBW		360		Degrees
Vertical (Elevation) HPBW		163		Degrees

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with
3.75 dBic Gain, Type N Male and Black G10 Radome



LCANOM1171

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power			20	Watts

Mechanical Specifications

Radome Material G10 Fiberglass

Size

Radome Diameter 0.812 in [20.62 mm]
 Length 6.83 in [173.48 mm]
 Width 0.812 in [20.62 mm]
 Height 0.812 in [20.62 mm]
 Weight 0.156 lbs [70.76 g]

Environmental Specifications

Temperature

Wind Survivability 100.041 MPH [161 KPH]

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

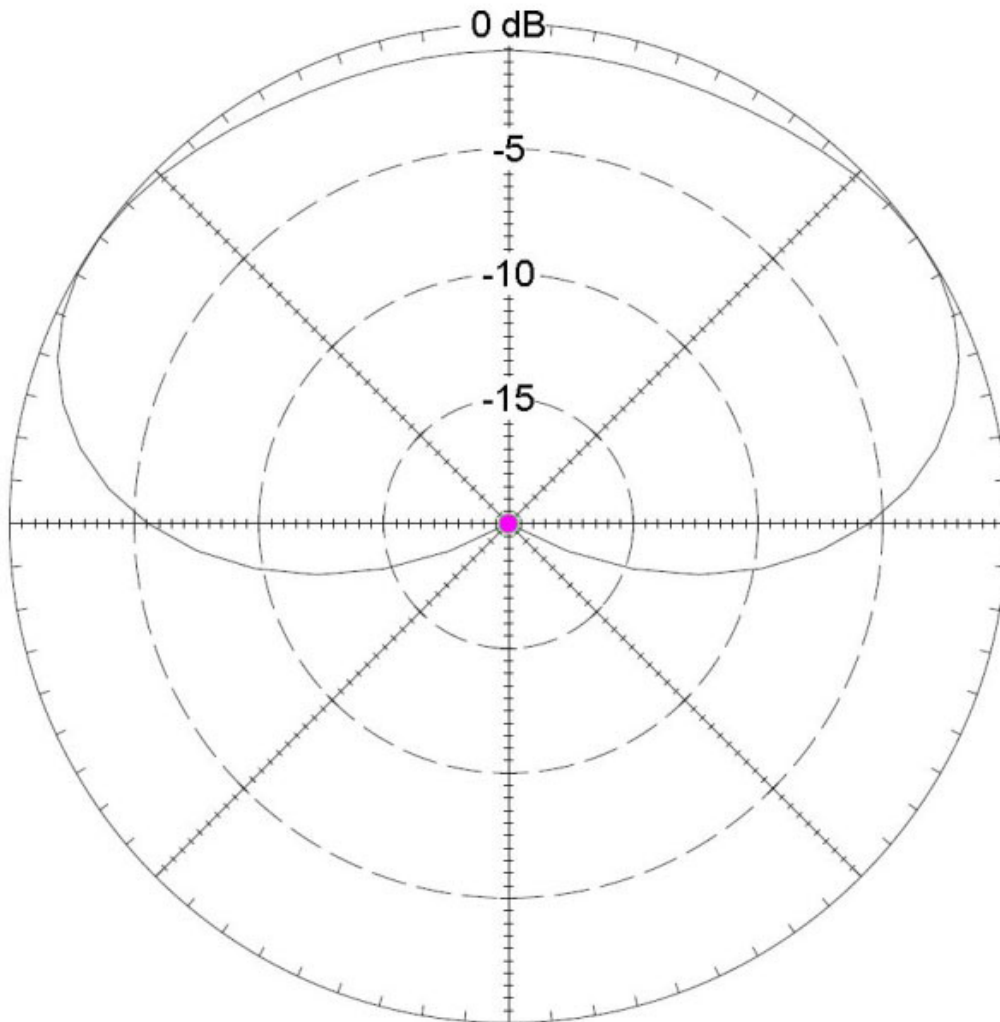
Notes:

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with
3.75 dBic Gain, Type N Male and Black G10 Radome

LCANOM1171



Typical Radiation Pattern



Elevation Pattern

Referenced to 4 dBic

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Type N Male and Black G10 Radome



LCANOM1171

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Type N Male and Black G10 Radome from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/4.4-ghz-5.9-ghz-bifilar-omni-antenna-lhcp-3.75-dbic-gain-type-n-male-black-g10-radome-lcanom1171.html>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

LCANOM1171 CAD Drawing

4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Type N Male and Black G10 Radome

