

FMANOM1171

Features

- · Bifilar Omni Antenna
- 4.4 GHz to 5.9 GHz
- 3.75 dBic Gain
- · 3 Turn (3T) Bifilar

Applications

- · Ground-to-Air Communication
- Unmanned Vehicles
- · Autonomous Vehicles

- LHCP
- Type N Male
- Black G10 Radome
- Made in USA
- Video Relay
- · Rugged, Harsh, Hostile Environments

Description

Fairview Microwave's FMANOM1171 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 FMANOM1171 single-band antenna from Fairview Microwave 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 FMANOM1171 omnidirectional antenna has an impedance of 50 Ohms. Additional dimensions and specifications for this antenna are on our downloadable PDF datasheet.

Fairview Microwave 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
Application Band
Band Type
Radiation Pattern
Polarization

C-band Single Omni Directional

LHCP

LHCP N Male

Bifilar

Electrical Specifications

Connector Type

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





FMANOM1171

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
 0.2 lbs [90.72 g]

Environmental Specifications

Temperature

Wind Survivability 100.041 MPH [161 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

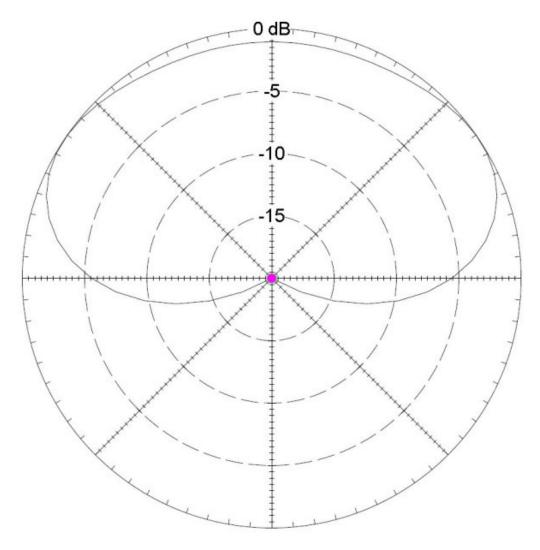
Notes:





FMANOM1171

Typical Radiation Pattern



Elevation Pattern

Referenced to 4 dBic





FMANOM1171

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 Fairview Microwave is instock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Type N Male and Black G10 Radome FMANOM1171

URL: https://www.fairviewmicrowave.com/product/antennas/dbic-bifilar-antenna-4400-5900-mhz-n-type-connector-fmanom1171.html

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FMANOM1171 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

