4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Flange Mount SMA Female and Black G10 Radome

PEANOM1170

Features

- Bifilar Omni Antenna
- 4.4 GHz to 5.9 GHz
- 3.75 dBic Gain
- 3 Turn (3T) Bifilar
- LHCP
- Flange Mount
- SMA Female
- Black G10 Radome
- Made in USA

Applications

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

Description

The PEANOM1170 from Pasternack is a bifilar omni antenna designed for ground-to-air vehicle communication, including manned and unmanned aircraft. This omnidirectional antenna has an SMA female 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 an impedance of 50 Ohms and 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. Pasternack's PEANOM1170 single-band antenna has a maximum gain of 3.75 dBic. This antenna has an overall length of 3.81 inches, a height of 1.5 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 PEANOM1170 omnidirectional antenna features a flange mount base with lock-wired screws. Additional dimensions and specifications for this antenna are on our downloadable PDF datasheet.

Pasternack 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	Portable
Application Band	C-band
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	LHCP
Connector Type	SMA Female

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

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Vertical (Elevation) HPBW		163		Degrees
Input Power			20	Watts

Mechanical Specifications

Radome Material	G10 Fiberglass
Size	
Base Diameter	1.5 in [38.1 mm]
Radome Diameter	0.812 in [20.62 mm]
Length	3.81 in [96.77 mm]
Width	1.5 in [38.1 mm]
Height	1.5 in [38.1 mm]
Weight	0.1 lbs [45.36 g]

Environmental Specifications

Temperature	
Wind Survivability	200.082 MPH [322 KPH]

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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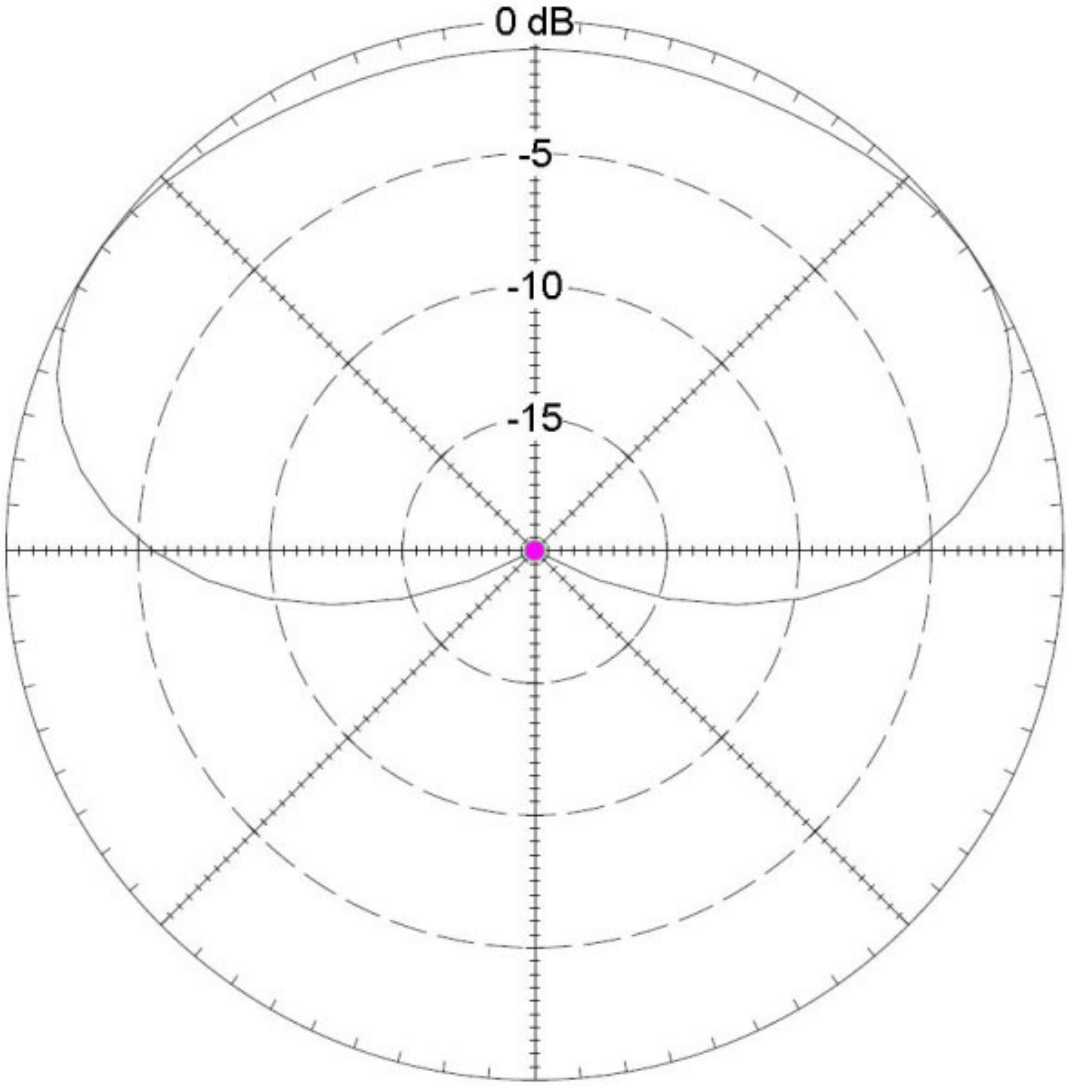
Typical Radiation Pattern



Elevation Pattern

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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, Flange Mount SMA Female and Black G10 Radome from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 4.4 GHz to 5.9 GHz, Bifilar Omni Antenna, LHCP with 3.75 dBic Gain, Flange Mount SMA Female and Black G10 Radome PEANOM1170

URL: https://www.pasternack.com/bifilar-antenna-4400-5900-mhz-sma-female-connector-peanom1170.html

PEANOM1170 CAD Drawing

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