



5150-5875 MHz, 15 dBi Gain, HV-pol, Log
Periodic Antenna, 2 x N Female

Antennas Technical Data Sheet

PEANLP1005

Features

- Frequency coverage for 5150 MHz to 5875 MHz
- Very High Gain 15 dBi Directional Antenna
- Each connector covers wide band of frequencies
- Easy Install universal mounting bracket provided
- Weatherproof ABS – UV Resistance PVC radome
- Pigtail – 10 inches
- 2 x N-Type Female connector

Applications

- Point-to-point, NB-IoT, IoT, M2M applications
- 5G / WLAN / Sub-6 GHz operation supported
- 5G Bands Supported - n46
- DAS (Distributed Antenna Systems)
- IEEE 802.11a / n / ac / ah / ax Wi-Fi applications
- Public safety, utilities, CCTV and local radio coverage
- Smart cities expansion for coverage and IOT / IIOT

Description

Pasternack's PEANLP1005 high gain log periodic antenna is designed to operate from 5150 to 5875 MHz. With 15 dBi of gain, PEANLP1005 is ideal for boosting 5G, LTE, CMDA, LoRA, IoT, WIFI. The Pasternack log periodic PEANLP1005 can be used for long distance directional communication over a wide range of frequencies.

Log periodic antennas from Pasternack function as boosters where the existing cellular signal is weak and needs to reach further distances. The PEANLP1005 has V/H polarization, 25 horizontal beamwidth, and 23 vertical beamwidth for point to point communication. The included mounting brackets allow for either vertical or horizontal mounting configurations. The directional PEANLP1005 antenna has 2 Type N Female connector on a 10 inches long pigtail.

The 15 dBi max gain log periodic PEANLP1005 antenna operates in 5G bands n46. This 5150 to 5875 MHz 5G directional log periodic antenna with Type N connector is in stock and ready to ship the same day. Contact Pasternack's knowledgeable and friendly technical support and sales staff for your answers on antennas or other products.

Configuration

Design	Log Periodic
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical and Horizontal
Cable Type	Coax Cable
Cable Length	9.8 in [248.92 mm]
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.7:1	
Impedance		50		Ohms
Gain			15	dBi
Front to Back Ratio		18		dB
Input Power			100	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [5150-5875 MHz, 15 dBi Gain, HV-pol, Log Periodic Antenna, 2 x N Female PEANLP1005](#)



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	5.15 to 5.875					GHz
Gain	15					dBi
Horizontal Beam Width	25					Degrees
Vertical Beam Width	23					Degrees
VSWR Max	1.7:1					
Maximum Input Power	100					Watts

Mechanical Specifications

Radome Material

ABS

Size

Overall Length

15.3 in [388.62 mm]

Width

3.1 in [78.74 mm]

Height

3.1 in [78.74 mm]

Weight

1 lbs [453.59 g]

Environmental Specifications

Temperature

Operating Range

-40 to +65 deg C

Wind Loading

130.5 MPH [210.02 KPH]

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

Plotted and Other Data

Notes:

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5150-5875 MHz, 15 dBi Gain, HV-pol, Log Periodic Antenna, 2 x N Female 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: [5150-5875 MHz, 15 dBi Gain, HV-pol, Log Periodic Antenna, 2 x N Female PEANLP1005](https://www.pasternack.com/single-antenna-0-dbi-gain-n-peanlp1005-p.aspx)

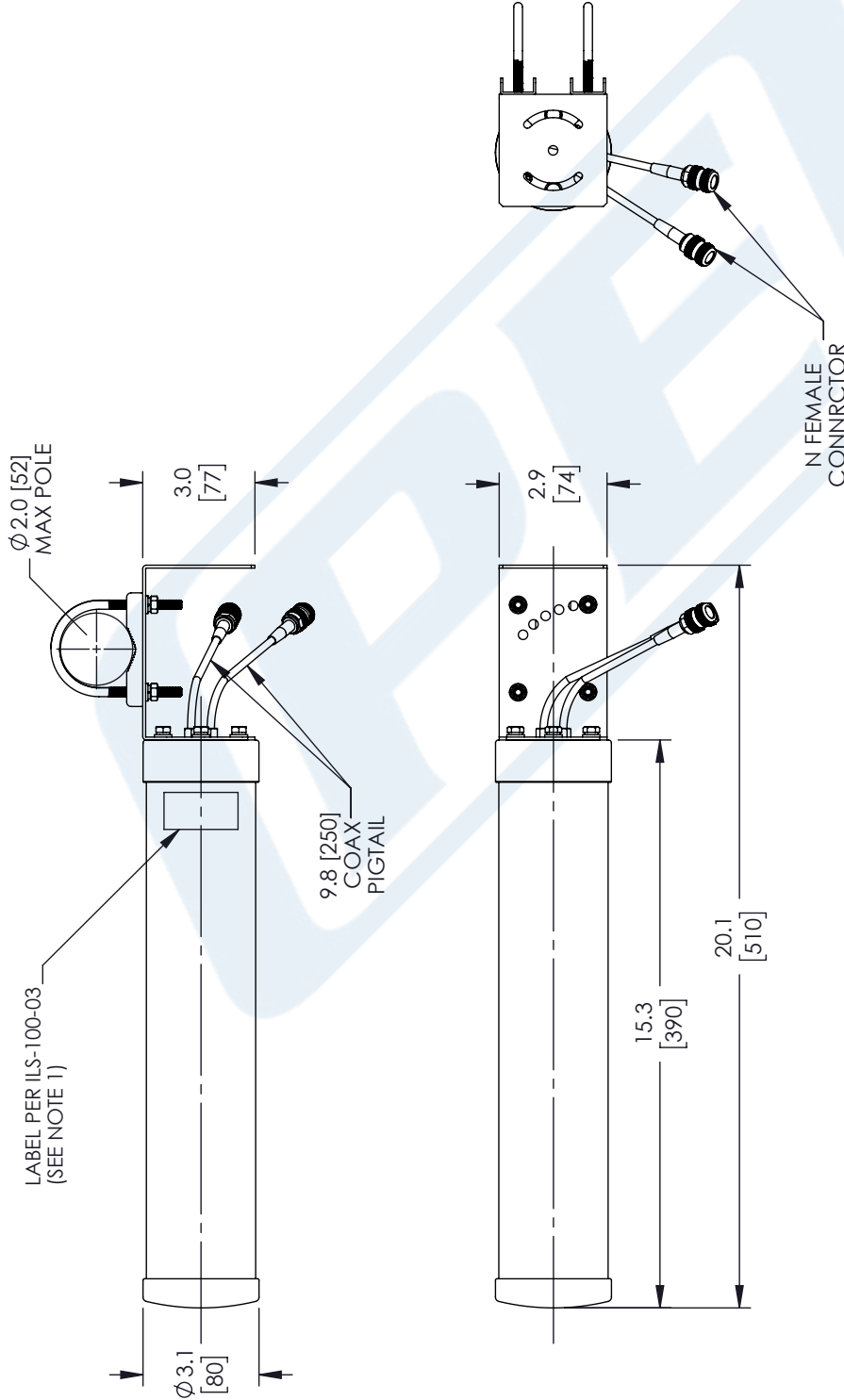
URL: <https://www.pasternack.com/single-antenna-0-dbi-gain-n-peanlp1005-p.aspx>

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PEANLP1005 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/21/2022	K.HEITPAS



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SIZE A		DRAWN BY K.GLEBOVA	
CAGE CODE 53919		REV A	

NOTES:
1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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