



2300-2500 MHz, 10 dBi, Gain, V-pol, Type N Female

## Antennas Technical Data Sheet

PEANLP1009

### Features

- Frequency coverage for 2300 MHz to 2500 MHz
- Very High Gain 10 dBi Directional Antenna
- Each connector covers wide band of frequencies
- Easy Install universal mounting bracket provided

- Weatherproof ABS radome
- Pigtail – 12 inches
- N-Type Female connector

### Applications

- Point-to-point, LPWAN, LTE-M, NB-IoT, IoT, M2M applications
- 4G LTE B23 operation supported
- 5G Bands supported -n40, n41, n53, n90, n97
- DAS (Distributed Antenna Systems)

- IEEE 802.11a / b /g / n / ac / ad / ah/ ax Wi-Fi applications
- Public safety, utilities, CCTV and local radio coverage
- Smart cities expansion for coverage and IOT / IIOT

### Description

Pasternack's PEANLP1009 high gain log periodic antenna is designed to operate from 2300 to 2500 MHz. With 10 dbi of gain, PEANLP1009 is ideal for boosting 5G, LTE, CMDA, LoRA, IoT, WIFI. The Pasternack log periodic PEANLP1009 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 PEANLP1009 has vertical polarization, 55 horizontal beamwidth, and 50 vertical beamwidth for point to point communication. The included mounting brackets allow for either vertical or horizontal mounting configurations. The directional PEANLP1009 antenna has 1 Type N Female connector on a 12 inches long pigtail.

The 10 dBi max gain log periodic PEANLP1009 antenna operates in 5G bands n40, n41, n53, n90, n97. This 2300 to 2500 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
Cable Type	Coax Cable
Cable Length	11.8 in [299.72 mm]
Connector Type	N Female
Number of Ports	1

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.5:1	
Impedance	50			Ohms
Gain		10		dBi
Front to Back Ratio	16			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: [2300-2500 MHz, 10 dBi, Gain, V-pol, Type N Female PEANLP1009](#)

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### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.3 to 2.5					GHz
Gain	10					dBi
Horizontal Beam Width	55					Degrees
Vertical Beam Width	50					Degrees
VSWR Max	1.5:1					
Maximum Input Power	100					Watts

### Mechanical Specifications

Radome Material

ABS

#### Size

Overall Length

5.9 in [149.86 mm]

Width

2.2 in [55.88 mm]

Height

4.7 in [119.38 mm]

Weight

0.8 lbs [362.87 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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PEANLP1009

2300-2500 MHz, 10 dBi, Gain, V-pol, Type 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: [2300-2500 MHz, 10 dBi, Gain, V-pol, Type N Female PEANLP1009](https://www.pasternack.com/2300-2500-MHz-10-dBi-Gain-V-pol-Type-N-Female-PEANLP1009)

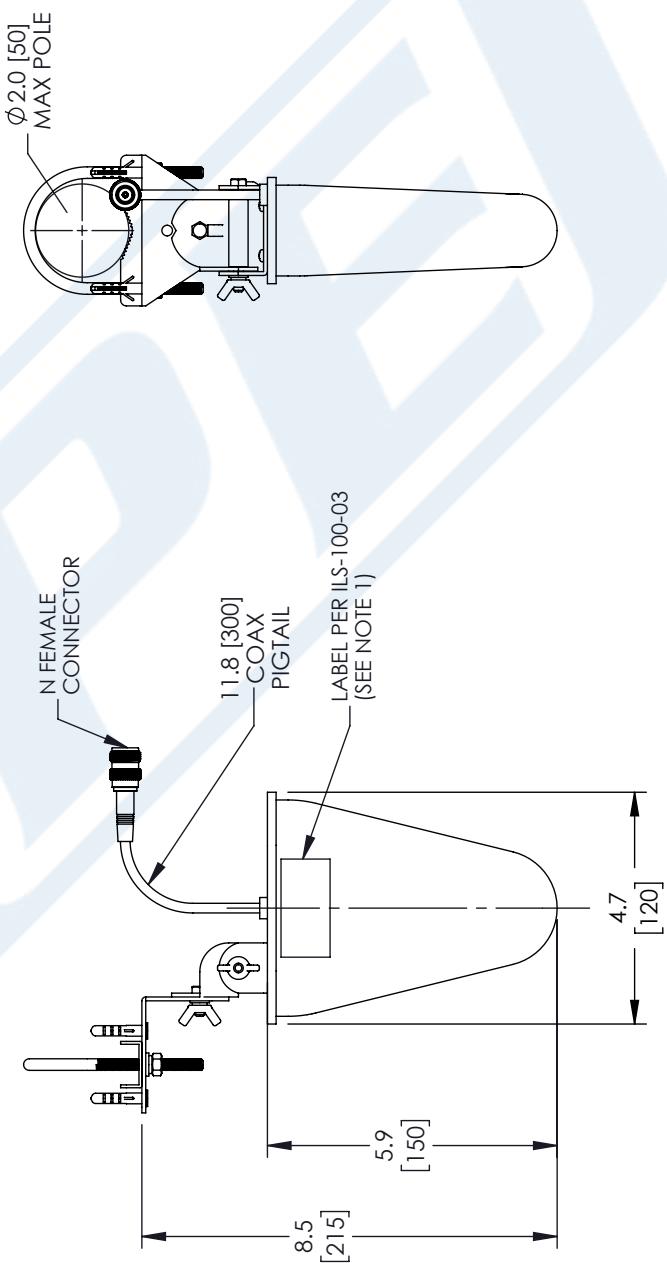
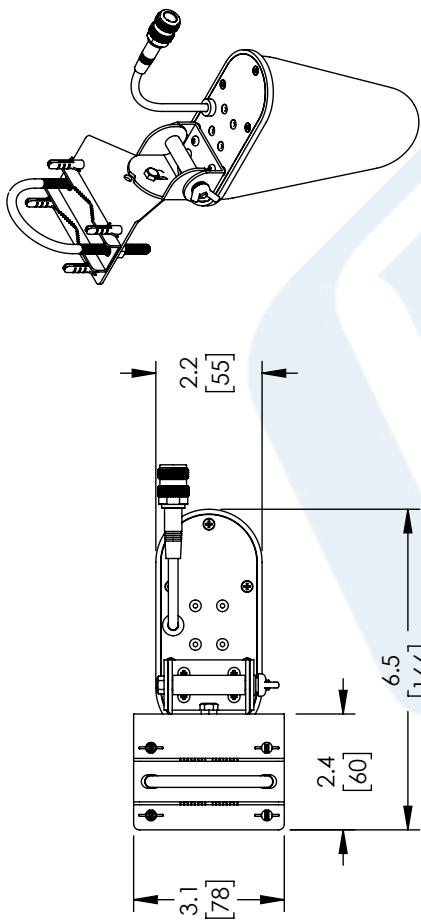
URL: <https://www.pasternack.com/single-antenna-0-dbi-gain-n-peanlp1009-p.aspx>

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PEANLP1009 CAD Drawing

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



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

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<b>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</b>		SHEET 1 OF 1	
TOLERANCES:		SCALE N/A	
$X = \pm .2$ $.XX = \pm .02$ $XXX = \pm .005$ [ .13 ]		<b>FRACTIONS</b> $\pm 1/32$ <b>ANGLES</b> $\pm 1^\circ$	
CABLE LENGTH (L) TOLERANCES:		REV A	
$L \leq 12$ [305] < $L \leq 60$ [1524] = $+1.125$ [-0.25] $60$ [1524] < $L \leq 120$ [3048] = $+4.102$ [-0.25] $120$ [3048] < $L \leq 300$ [7620] = $+6.112$ [-0.25] $300$ [7620] < $L =$ $+5.75$ [-0.25]		ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
SIZE A	CAGE CODE 53919	DRAWN BY K.GLEBOVA	ITEM NO. PEANLP1009

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