



806-960 / 1710-2500 MHz, 9 dBi Gain, V-pol, Type N Female

## Antennas Technical Data Sheet

PEANLP1007

### Features

- Frequency coverage for 806 MHz to 2500 MHz
- Very High Gain 9 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, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- 5G / 4G LTE B1 to B11, B18 to B21, B23, B24, B25 / 3G / GSM / AWS / WLAN operation supported
- 5G Bands supported
- 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 PEANLP1007 high gain log periodic antenna is designed to operate from 806 to 2500 MHz. With 9 dBi of gain, PEANLP1007 is ideal for boosting 5G, LTE, CMDA, LoRA, IoT, WIFI. The Pasternack log periodic PEANLP1007 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 PEANLP1007 has vertical polarization, 65 horizontal beamwidth, and 55 vertical beamwidth for point to point communication. The included mounting brackets allow for either vertical or horizontal mounting configurations. The directional PEANLP1007 antenna has 1 Type N Female connector on a 12 inches long pigtail.

The 9 dBi max gain log periodic PEANLP1007 antenna operates in 5G bands n1, n2, n3, n5, n8, n18, n20, n25, n26, n30, n34, n39, n40, n41, n53, n65, n66, n67, n70, n80, n81, n82, n84, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98. This 806 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	Multi
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			9	dBi
Front to Back Ratio		14		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: [806-960 / 1710-2500 MHz, 9 dBi Gain, V-pol, Type N Female PEANLP1007](#)



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**Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.806 to 0.96	1.71 to 2.5				GHz
Gain	9	9				dBi
Horizontal Beam Width	65	65				Degrees
Vertical Beam Width	55	55				Degrees
VSWR Max	1.5:1	1.5:1				
Maximum Input Power	100	100				Watts

**Mechanical Specifications**

Radome Material

ABS

**Size**

Overall Length

11.8 in [299.72 mm]

Width

2.9 in [73.66 mm]

Height

8.3 in [210.82 mm]

Weight

1.8 lbs [816.47 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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806-960 / 1710-2500 MHz, 9 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: [806-960 / 1710-2500 MHz, 9 dBi Gain, V-pol, Type N Female PEANLP1007](https://www.pasternack.com/multi-antenna-0-dbi-gain-n-peanlp1007-p.aspx)

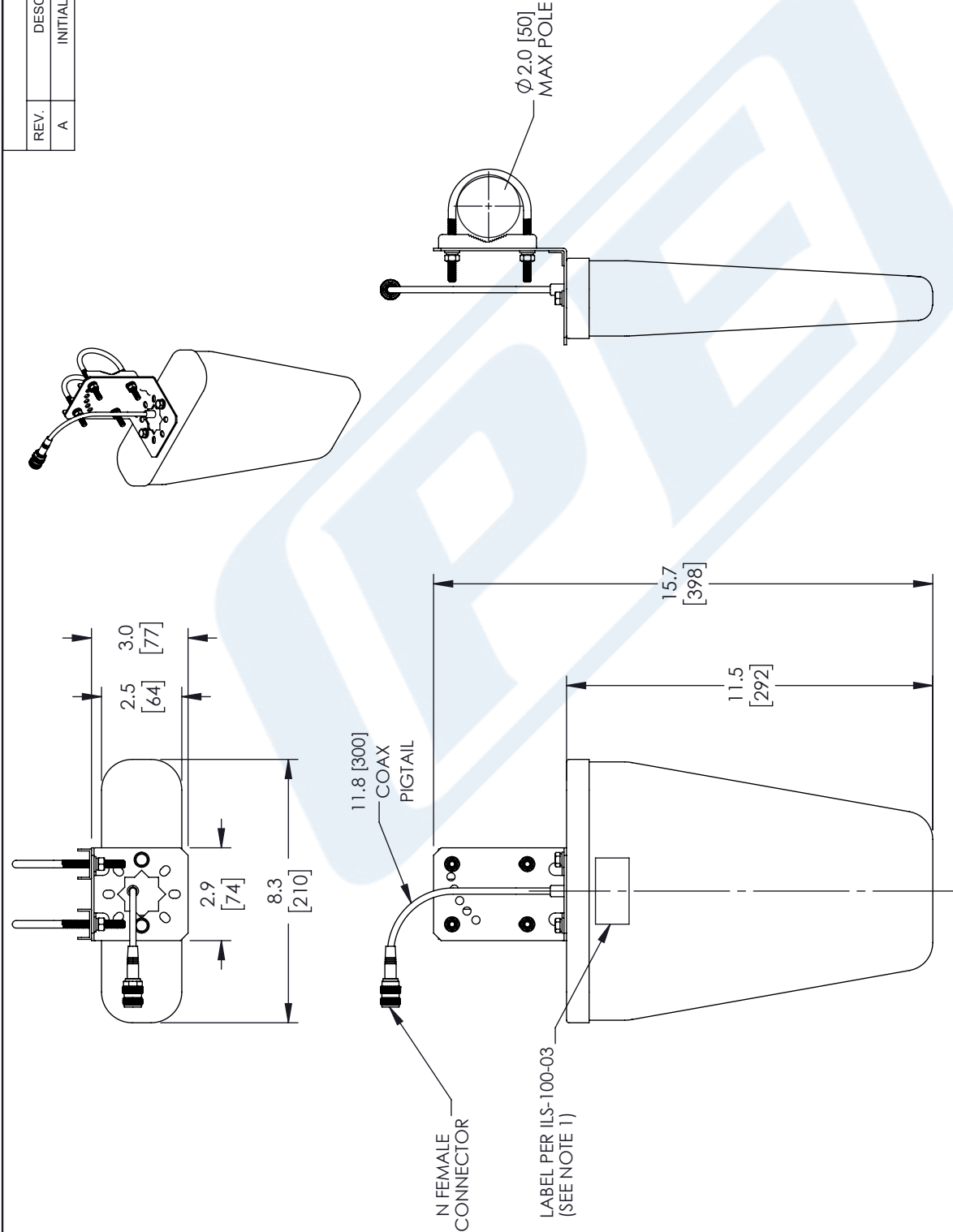
URL: <https://www.pasternack.com/multi-antenna-0-dbi-gain-n-peanlp1007-p.aspx>

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# PEANLP1007 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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UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [508] FRACTIONS

.XX = ± .02 [51] ± 1/32

.XXX = ± .005 [13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0

12 [305] < L ≤ 60 [1524] = +2 [51] / -0

60 [1524] < L ≤ 120 [3048] = +4 [102] / -0

120 [3048] < L ≤ 300 [7620] = +6 [152] / -0

300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.



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ITEM NO.

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PEANLP1007

REV A



THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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