



617-960 / 1710-2700 MHz, 10/11 dBi, V-pol, Log
Periodic Antenna, N Female Connector

Antennas Technical Data Sheet

PEANLP1003

Features

- Frequency coverage for 617 MHz to 2700 MHz
- Very High Gain 11 dBi Directional Antenna
- Each connector covers wide band of frequencies
- Easy Install universal mounting bracket provided
- Weatherproof ABS – UV Resistance PVC 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 B10, B12 to B20, B23, B24, B25, B28 / 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 PEANLP1003 high gain log periodic antenna is designed to operate from 617 to 2700 MHz. With 11 dBi of gain, PEANLP1003 is ideal for boosting 5G, LTE, CMDA, LoRA, IoT, WIFI. The Pasternack log periodic PEANLP1003 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 PEANLP1003 has Vertical polarization, 75 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 PEANLP1003 antenna has 1 Type N Female connector on a 12 Inches long pigtail.

The 11 dBi max gain log periodic PEANLP1003 antenna operates in 5G bands n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n53, n65, n66, n67, n67, n70, n71, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98. This 617 to 2700 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	RG58/U
Cable Length	11.81 in [299.97 mm]
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	617		2,700	MHz
Input VSWR		1.5:1	2:1	
Impedance		50		Ohms
Gain	10		11	dBi
Input Power			50	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [617-960 / 1710-2700 MHz, 10/11 dBi, V-pol, Log Periodic Antenna, N Female Connector PEANLP1003](#)



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617 to 0.698	0.698 to 0.96	1.71 to 2.7			GHz
Gain	10	10	11			dBi
Horizontal Beam Width	75	75	60			Degrees
Vertical Beam Width	50	50	40			Degrees
VSWR Max	2:1	2:1	1.5:1			
Maximum Input Power	50	50	50			Watts

Mechanical Specifications

Radome Material	ABS
Size	
Overall Length	17.5 in [444.5 mm]
Width	1.5 in [38.1 mm]
Height	8 in [203.2 mm]
Mounting Mast Diameter	1.57 to 1.97 in [39.88 to 50.04 mm]
Weight	1.05 lbs [476.27 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Loading	150 MPH [241.4 KPH]
Humidity	5 to 95

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

Plotted and Other Data

Notes:

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617-960 / 1710-2700 MHz, 10/11 dBi, V-pol, Log Periodic Antenna, N Female Connector 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.

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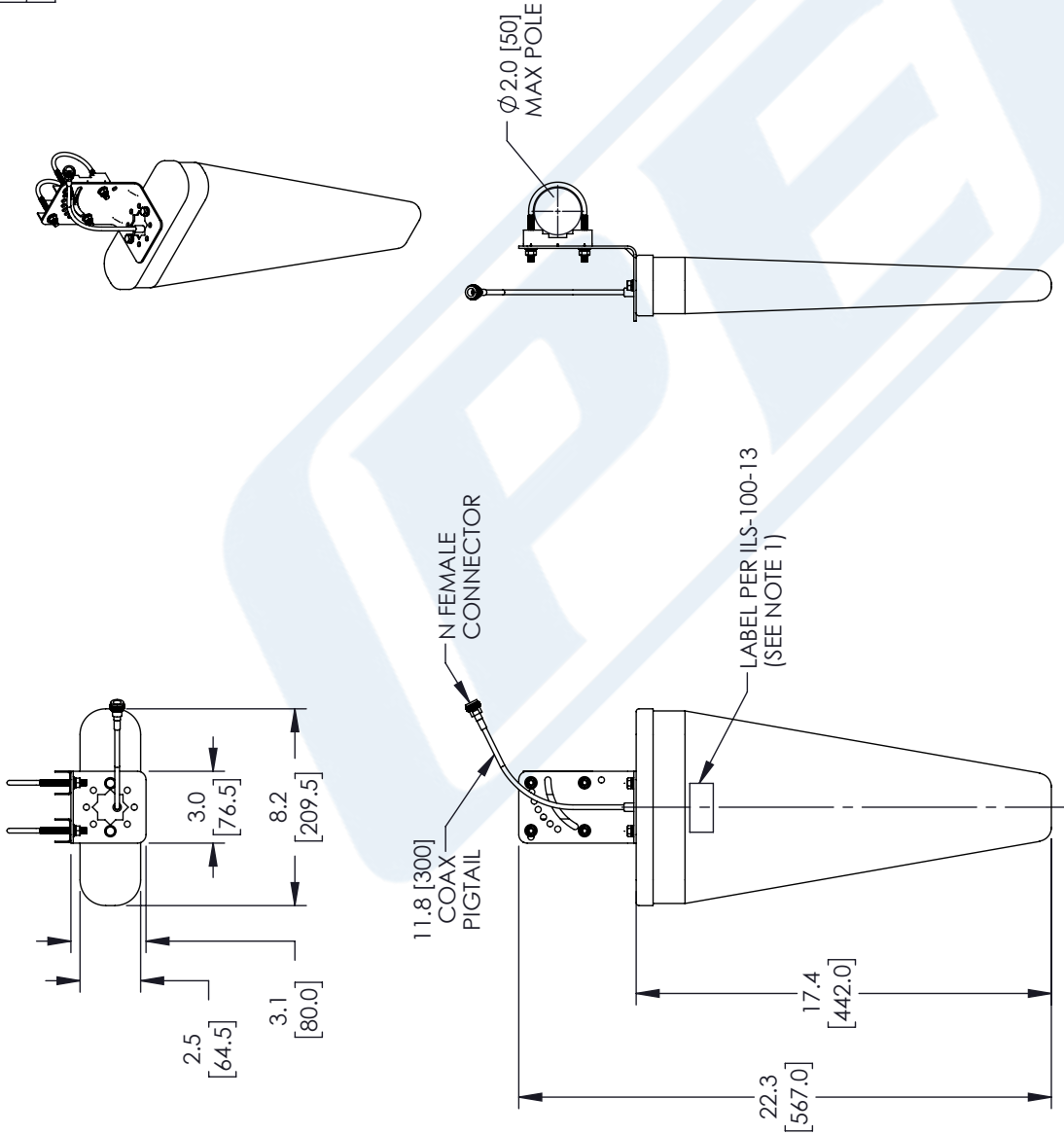
URL: <https://www.pasternack.com/multi-antenna-617-mhz-2.7-ghz-0-dbi-gain-n-peanlp1003-p.aspx>

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PEANLP1003 CAD Drawing

617-960 / 1710-2700 MHz, 10/11 dBi, V-pol, Log Periodic Antenna, N Female Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/28/2022	K.HIETPAS



NOTES:
1. LABEL PER ILS-100-13 (FOR INTERNAL REFERENCE ONLY)
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: .X = ±.2 [5.08] .XX = ±.02 [51] .XXX = ±.005 [13] 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.	SIZE A CAGE CODE 53919 DRAWN BY K.GLEBOVA	ITEM NO. PEANLP1003 REV A	