



6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Female Connector

Antennas Technical Data Sheet

PE51OM1039

Features

- All weather operation
- Includes heavy duty steel mast mounting brackets
- Lightweight polycarbonate radome
- Integral N-Female connector
- Commercial grade design
- 360° Omnidirectional Pattern
- 4 to 6 dBi gain

Applications

- Supports low and midband LTE and 5G networks
- Point to Multipoint and Non Line of Sight (NLOS) Applications
- 600, 700, 800, 1800, 1900, 2100, 2600 Cellular Band Operation

Description

The PE51OM1039 from Pasternack is a high performance 5G / LTE outdoor omnidirectional antenna designed for Cellular Networks. The PE51OM1039 operates from 617 to 2700 MHz which is ideal for 5G, LTE, CDMA, LPWAN/IoT/ M2M applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the Pasternack PE51OM1039 antenna eliminates the need to purchase different antennas for each frequency. The same antenna can be used for a wide array of base station cellular applications where wide coverage is desired. Pasternacks PE51OM1039 can be used to distribute Cellular telecommunication signals over a large area.

The omnidirectional antenna with vertical polarization PE51OM1039 from Pasternack has Type N connectors and 4-6 dBi of gain. The Type N connectorized PE51OM1039 antenna from Pasternack excels in large open areas. The mounting bracket and hardware are included for easy installation. Our Pasternack ISO 9001:2008 registered facilities in Irvine, CA ships all Type N RF, microwave and millimeter wave waveguide components from stock the same day you purchase them. Pasternack offers the broadest and deepest in-stock inventory and is where to buy 5G antennas. Our expert technical support and friendly, knowledgeable customer service personnel are available to assist you with your particular needs for 5G / LTE outdoor omnidirectional 5G cellular antennas.

Configuration

Design	Omni
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	617		2,700	MHz
Impedance		50		Ohms
Gain		6		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: [6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Female Connector PE51OM1039](#)



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617 to 0.96	1.71 to 2.7				GHz
Gain	6	6				dBi
Horizontal Beam Width	360	360				Degrees
Vertical Beam Width	40	25				Degrees
VSWR Max	2:1	2:1				

Mechanical Specifications

Radome Material	Polycarbonate
Size	
Overall Length	35.1 in [891.54 mm]
Width	3.1 in [78.74 mm]
Height	3.1 in [78.74 mm]
Mounting Mast Diameter	1.97 to 3.54 in [50.04 to 89.92 mm]
Weight	3.75 lbs [1.7 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Loading	124.27 MPH [199.99 KPH]
Humidity	91

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

Plotted and Other Data

Notes:

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6 dBi MIMO Omni Antenna 617-2,700 MHz N Type 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Female Connector PE51OM1039](https://www.pasternack.com/single-antenna-617-mhz-2.7-ghz-6-dbi-gain-n-pe51om1039-p.aspx)

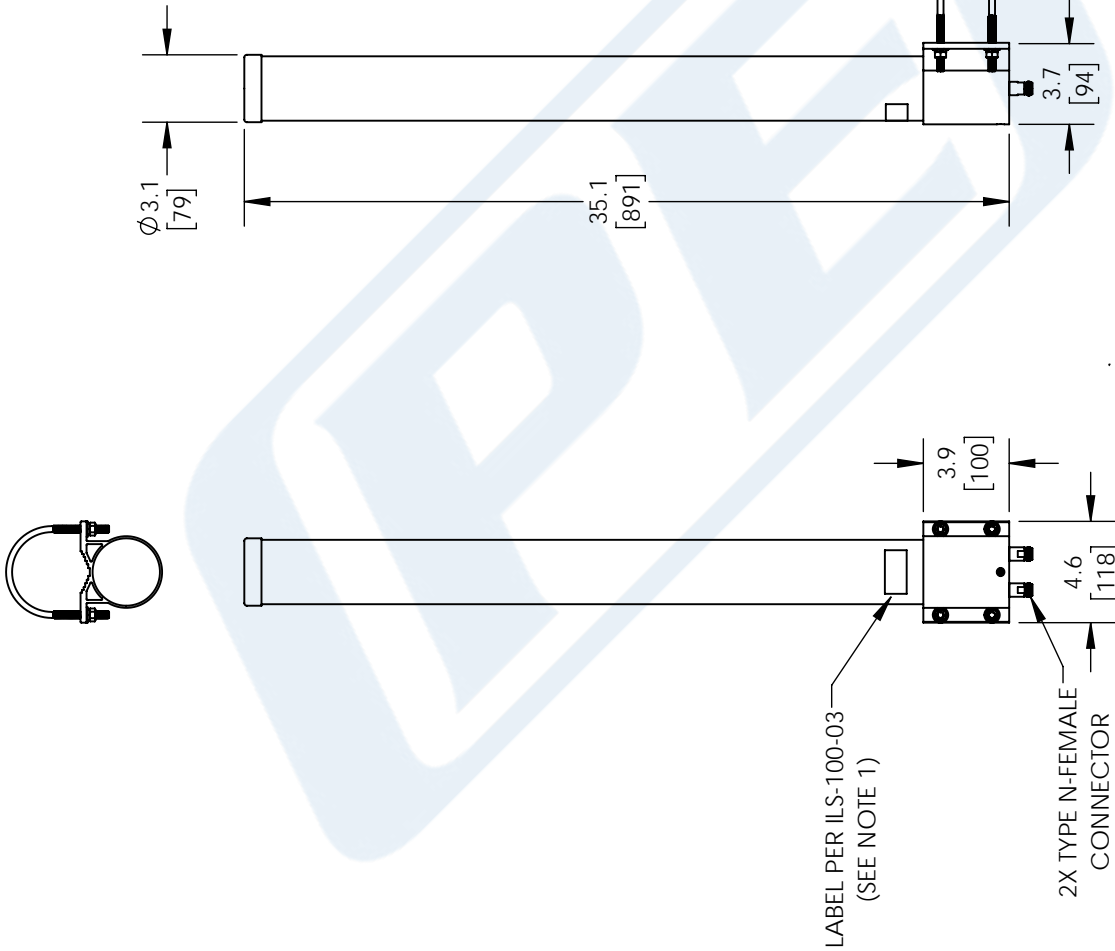
URL: <https://www.pasternack.com/single-antenna-617-mhz-2.7-ghz-6-dbi-gain-n-pe51om1039-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE510M1039 CAD Drawing

6 dBi MIMO Omni Antenna 617-2,700 MHz N Type Female Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/17/2021	KHIETPAS



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

TOLERANCES:
 .X = ±.2 [5.08] | FRACTIONS ± 1/32
 .XX = ±.02 [.51] | ANGLES ± 1°
 .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.

THIRD-ANGLE PROJECTION

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SCALE N/A

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ITEM NO. PE510M1039

SIZE A CAGE CODE 53919 DRAWN BY BPUCHASKI

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

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