

L-band Omni Antenna 1.15 GHz to 1.4 GHz,
N Type Male, IP65 Rated



Antennas Technical Data Sheet

PEANOM1140

Features

- L-band 1150 MHz to 1400 MHz
- N-type Male RF Connector
- Stable 3.5 dBi gain typical
- Ground plane independent
- Precision Construction
- IP65 Rated

Applications

- L-band
- Military Communication
- Unmanned Operations
- Manpack Radio Systems
- Secure Communications
- Defense and Strategic Installations
- Surveillance Systems

Description

The PEANOM1140 is an L-band Omnidirectional Antenna, proudly presented by Pasternack cutting-edge solution for military antennas and unmanned vehicle applications. Operating in the frequency range of 1.15 GHz to 1.4 GHz, this antenna ensures superior communication performance. Constructed with precision using top-tier materials, the PEANOM1140 features a robust N-male connector, providing unparalleled connectivity. Its stable 3.5 dBi gain makes it a reliable choice for mission-critical operations.

The PEANOM1140 utilizes a collinear dipole array radiator with an integrated balun, ensuring ground plane independence and suitability for any mounting platform, such as manpacks and mobile electronic devices. Designed and intended for use in extreme operational conditions, this antenna from Pasternack sets the standard for excellence in military communication and unmanned vehicle applications. The 1.15 to 1.4 GHz frequency band is strategically chosen, aligning with crucial military and government communication requirements. Additionally, L-band antennas, known for their versatility, find wide application in military and avionics systems, including radar, navigation, and data link systems.

Configuration

| | |
|-------------------|-------------------------|
| Design | Portable |
| Application Band | L-band |
| Band Type | Single |
| Radiation Pattern | Omni Directional |
| Polarization | Vertical |
| Ground Plane | Groundplane independent |
| Connector Type | N Male |
| Number of Ports | 1 |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------|---------|---------|---------|---------|
| Frequency Range | 1,150 | | 1,400 | MHz |
| Input VSWR | | | 2:1 | |
| Impedance | | 50 | | Ohms |
| Gain | 3.5 | 4 | 5 | dBi |
| Vertical Beam Width | 35 | | 55 | Degrees |
| Input Power | | | 20 | Watts |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [L-band Omni Antenna 1.15 GHz to 1.4 GHz, N Type Male, IP65 Rated PEANOM1140](#)

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Mechanical Specifications

Size

| | |
|----------------|--------------------|
| Overall Length | 16.5 in [419.1 mm] |
| Width | 1 in [25.4 mm] |
| Height | 1 in [25.4 mm] |
| Weight | 0.5 lbs [226.8 g] |

Environmental Specifications

Temperature

| | |
|--------------------|---------------------------|
| Operating Range | -31 to +51 deg C |
| Storage Range | -31 to +71 deg C |
| Wind Loading | 62.14 MPH [100 KPH] |
| Shock | 20 G / 10 mS X, Y, Z axes |
| Vibration | MIL-STD-167-1 type 1 |
| Ingress Protection | IP65 |

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

Plotted and Other Data

Notes:

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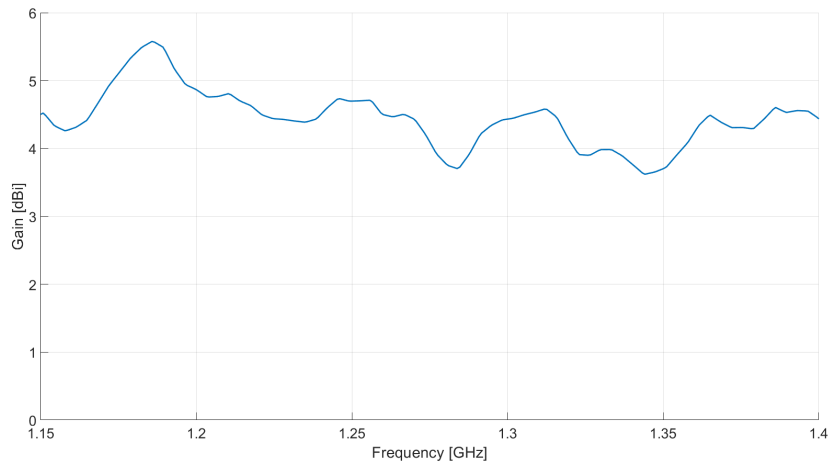
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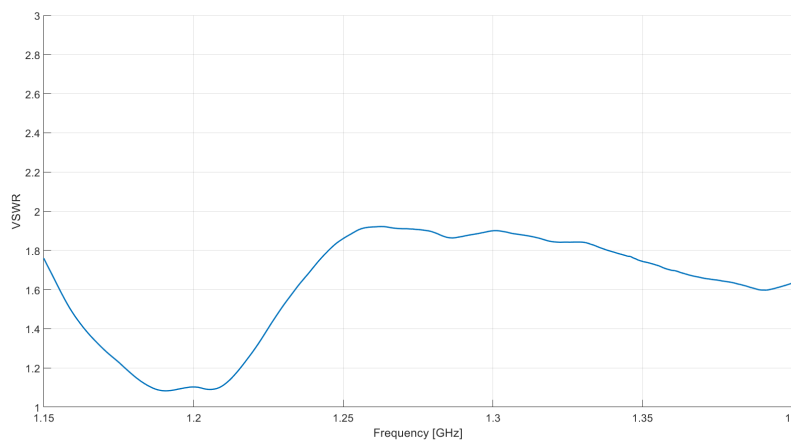
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Gain



VSWR



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L-band Omni Antenna 1.15 GHz to 1.4 GHz, N Type Male, IP65 Rated 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.

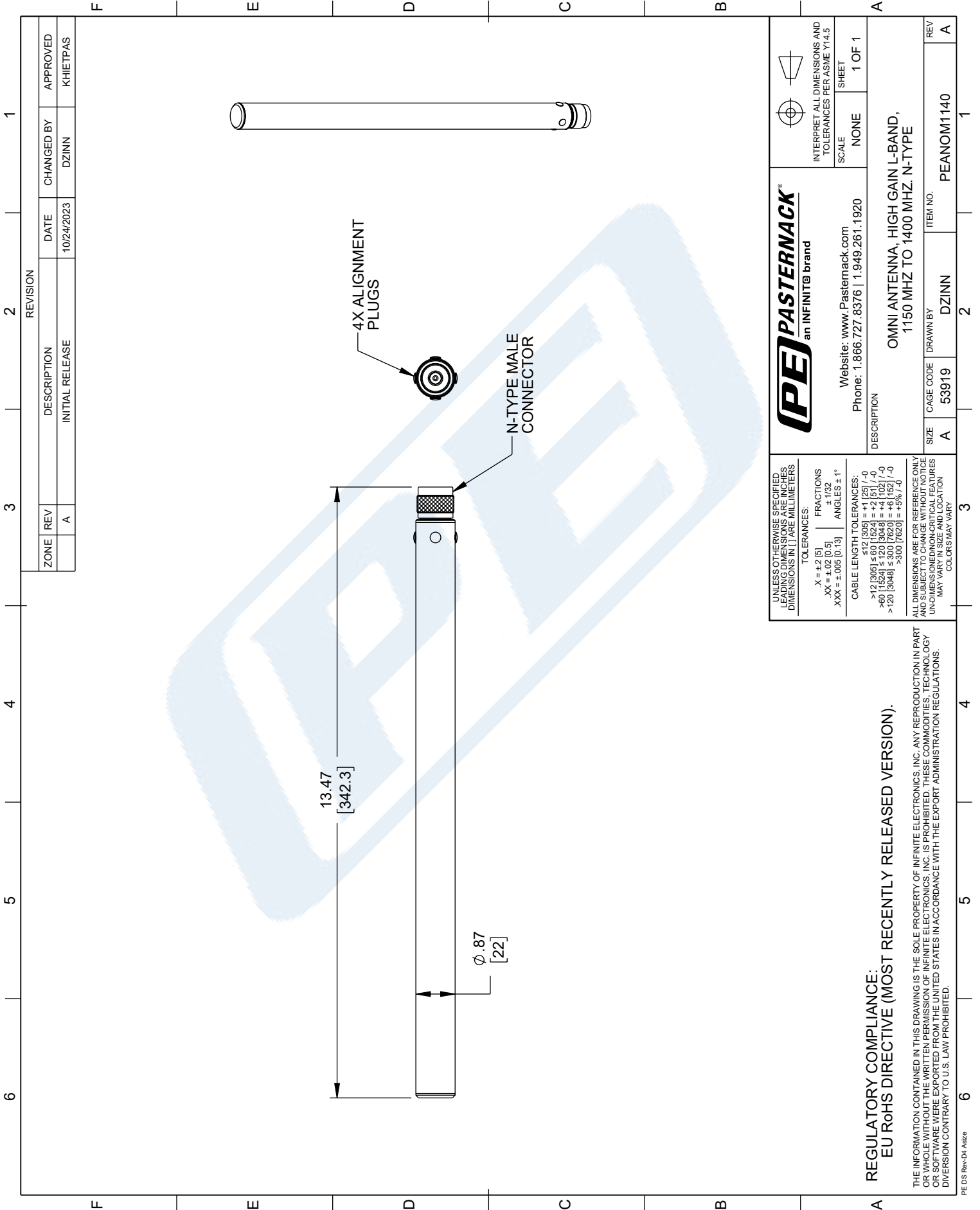
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [L-band Omni Antenna 1.15 GHz to 1.4 GHz, N Type Male, IP65 Rated PEANOM1140](https://www.pasternack.com/l-band-omni-antenna-1.15-ghz-to-1.4-ghz-n-type-male-ip65-rated-peanom1140)

URL: <https://www.pasternack.com/l-band-omni-antenna-1.15-ghz-to-1.4-ghz-n-type-male-ip65-rated-peanom1140-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.

PEANOM1140 CAD Drawing

L-band Omni Antenna 1.15 GHz to 1.4 GHz, N Type Male, IP65 Rated



| ZONE | REV | DESCRIPTION | DATE | CHANGED BY | APPROVED |
|------|-----|-----------------|------------|------------|----------|
| | A | INITIAL RELEASE | 10/24/2023 | DZINN | KHIE/PAS |

| REVISION | |
|----------|--|
| 1 | |

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|---|------------------|-------------------------|------------------|------------------------------|-------------|---------------------|--|------------|--------------|------------------------|--------------|--------------------------|-------------|---------------------------|--------------|--------------|--------------|---|--|---|--|
| <p>UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [5]</td> <td>FRACTIONS ± 1/32</td> </tr> <tr> <td>.XX = ±.02 [0.5]</td> <td>ANGLES ± 1°</td> </tr> <tr> <td>.XXX = ±.005 [0.13]</td> <td></td> </tr> </table> <p>CABLE LENGTH TOLERANCES:</p> <table border="0"> <tr> <td>≤ 12 [305]</td> <td>± .125 [1.0]</td> </tr> <tr> <td>> 12 [305] ≤ 60 [1524]</td> <td>± .25 [6.35]</td> </tr> <tr> <td>> 60 [1524] ≤ 120 [3048]</td> <td>± .5 [12.7]</td> </tr> <tr> <td>> 120 [3048] ≤ 300 [7620]</td> <td>± 1.0 [25.4]</td> </tr> <tr> <td>> 300 [7620]</td> <td>± 2.0 [50.8]</td> </tr> </table> <p>ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNLESS INDICATED OTHERWISE. DIMENSIONS AND LOCATIONS MAY VARY.</p> | | .X = ±.2 [5] | FRACTIONS ± 1/32 | .XX = ±.02 [0.5] | ANGLES ± 1° | .XXX = ±.005 [0.13] | | ≤ 12 [305] | ± .125 [1.0] | > 12 [305] ≤ 60 [1524] | ± .25 [6.35] | > 60 [1524] ≤ 120 [3048] | ± .5 [12.7] | > 120 [3048] ≤ 300 [7620] | ± 1.0 [25.4] | > 300 [7620] | ± 2.0 [50.8] | <p>PE PASTERNAK an INFINITI® brand</p> <p>Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920</p> | | <p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 1</p> | |
| .X = ±.2 [5] | FRACTIONS ± 1/32 | | | | | | | | | | | | | | | | | | | | |
| .XX = ±.02 [0.5] | ANGLES ± 1° | | | | | | | | | | | | | | | | | | | | |
| .XXX = ±.005 [0.13] | | | | | | | | | | | | | | | | | | | | | |
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| > 300 [7620] | ± 2.0 [50.8] | | | | | | | | | | | | | | | | | | | | |
| <p>DESCRIPTION: OMNI ANTENNA, HIGH GAIN L-BAND, 1150 MHZ TO 1400 MHZ, N-TYPE</p> | | | | <p>REV: A</p> | | | | | | | | | | | | | | | | | |
| <p>SIZE: A</p> | | <p>CAGE CODE: 53919</p> | | <p>ITEM NO.: PEANOM1140</p> | | | | | | | | | | | | | | | | | |
| <p>DRAWN BY: DZINN</p> | | <p>DATE: 10/24/2023</p> | | <p>APPROVED BY: KHIE/PAS</p> | | | | | | | | | | | | | | | | | |

REGULATORY COMPLIANCE:
EU RoHS DIRECTIVE (MOST RECENTLY RELEASED VERSION).

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