

144-430 MHz, 5.5 dBi Gain, Omni-directional Antenna with  
Magnetic NMO Mount, Reverse Polarity-SMA Plug Connector



**Antennas Technical Data Sheet**

**PEANMOB1007-RSP**

**Features**

- Outdoor Rated Omni Directional Antenna
- 5.5 dBi Gain
- Easy to install magnetic mount offering temporary plug and play installation
- NMO Magnetic Mount, Black ABS Radome
- 1.5:1 VSWR Max
- 10 Foot, Black Low-Loss LMR195 Equivalent Cable
- Reverse Polarity-SMA Plug Connector

**Applications**

- Offroad/Overland Vehicles
- Mining/Industrial
- Heavy Equipment
- Commercial Trucking
- Fleet Management
- Farm Equipment

**Description**

The PEANMOB1007-RSP from Pasternack is an omnidirectional antenna with a 5.5 dBi gain that transmits high-power signals and faster speed. This in-building antenna comes with a magnetic NMO mount specifically designed for high-performance applications. Our high-quality omni antenna is available in black color and can be procured with no order limit. This vertically polarized antenna has a frequency range of 144 to 430 MHz, which is ideal for indoor low-profile, in-building, and mobile applications.

The NMO-type magnetic mount on Pasternack's PEANMOB1007-RSP omnidirectional antenna makes it an ideal solution when the portability of the antenna is needed. This NMO antenna mount is constructed with a heavy-duty magnet to ensure secure mounting. The magnetic base allows a temporary plug-and-play installation. No drilling is required for the installation of this antenna mount, making it easy to fine-tune the antenna location. This magnetic mount has a reverse polarity SMA plug connector and can be used for WLAN, Wi-Fi, public safety, and mobile RF applications.

Pasternack has one of the largest in-stock selections of omnidirectional in-building antennas with the same-day shipment. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal vertically polarized antenna with a magnetic NMO mount for your requirements.

**Configuration**

|                   |                      |
|-------------------|----------------------|
| Design            | Omni                 |
| Band Type         | Single               |
| Radiation Pattern | Omni Directional     |
| Polarization      | Vertical             |
| Connector Type    | SMA Reverse Polarity |
| Number of Ports   | 1                    |

**Electrical Specifications**

| Description     | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | 144     |         | 430     | MHz   |
| Input VSWR      |         |         | 1.5:1   |       |
| Gain            |         | 5.5     |         | 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: [144-430 MHz, 5.5 dBi Gain, Omni-directional Antenna with Magnetic NMO Mount, Reverse Polarity-SMA Plug Connector PEANMOB1007-RSP](#)

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### Mechanical Specifications

Radome Material

Stainless Steel

#### Size

Overall Length

36.24 in [920.5 mm]

Width

3 in [76.2 mm]

Height

3 in [76.2 mm]

Weight

1.35 lbs [612.35 g]

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

### Plotted and Other Data

Notes:

144-430 MHz, 5.5 dBi Gain, Omni-directional Antenna with Magnetic NMO Mount, Reverse Polarity-SMA Plug 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.

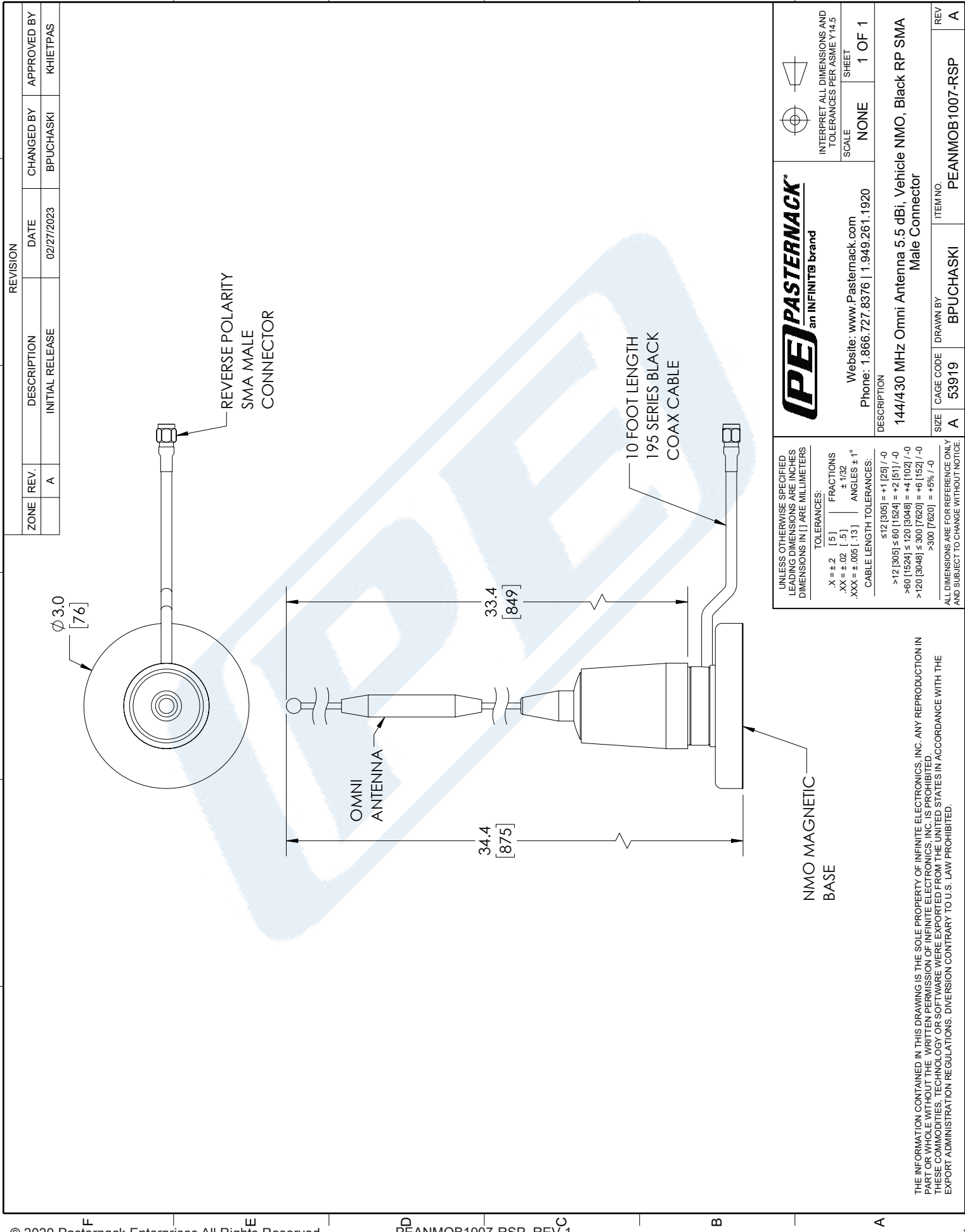
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URL: <https://www.pasternack.com/144-430-mhz-5.5-dbi-gain-omni-directional-antenna-with-magnetic-nmo-mount-reverse-polarity-sma-plug-connector-peanmob1007-rsp-p.aspx>

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.

PEANMOB1007-RSP CAD Drawing

144-430 MHz, 5.5 dBi Gain, Omni-directional Antenna with Magnetic  
NMO Mount, Reverse Polarity-SMA Plug Connector



| REVISION |      |                 |             |
|----------|------|-----------------|-------------|
| ZONE     | REV. | DESCRIPTION     | DATE        |
|          | A    | INITIAL RELEASE | 02/27/2023  |
|          |      | CHANGED BY      | APPROVED BY |
|          |      | BPUCHASKI       | KHIETPAS    |

|   |                 |
|---|-----------------|
| <b>PE PASTERNAK</b><br>an INFINITI <sup>®</sup> brand   |                 |
| Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a><br>Phone: 1.866.727.8376   1.949.261.1920 |                 |
| DESCRIPTION<br>144/430 MHz Omni Antenna 5.5 dBi, Vehicle NMO, Black RP SMA Male Connector                     |                 |
| SIZE  | ITEM NO.        |
| A   | PEANMOB1007-RSP |
| CAGE CODE   | DRAWN BY        |
| 53919   | BPUCHASKI       |
| REV   | REV             |
|   | A               |

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

TOLERANCES:  
.X = ± .2 [ .5 ] FRACTIONS  
.XX = ± .02 [ .5 ] ± 1/32  
.XXX = ± .005 [ .13 ] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
≤ 12 [ 305 ] = ± 1 [ 25 ] / - 0  
> 12 [ 305 ] ≤ 60 [ 1524 ] = ± 2 [ 51 ] / - 0  
> 60 [ 1524 ] ≤ 120 [ 3048 ] = ± 4 [ 102 ] / - 0  
> 120 [ 3048 ] ≤ 300 [ 7620 ] = ± 6 [ 152 ] / - 0  
> 300 [ 7620 ] = ± 5% / - 0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
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TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1