

136-940MHz, 2.5 dBi Gain, Omni-directional Antenna  
with Magnetic NMO Mount, SMA-Male Connector



## Antennas Technical Data Sheet

## PEANMOB1004-SM

### Features

- Outdoor Rated Omni Directional Antenna
- 2.5 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
- SMA-Male Connector
- Tunable Frequency

### Applications

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

### Description

The PEANMOB1004-SM from Pasternack is an omnidirectional antenna with a 2.5 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 136 to 940 MHz, which is ideal for indoor low-profile, in-building, and mobile applications.

The NMO-type magnetic mount on Pasternack's PEANMOB1004-SM 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 SMA male 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
Number of Ports	1

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range (Tunable)	136		940	MHz
Operational Bandwidth		5		MHz
Input VSWR			1.5:1	
Gain		2.5		dBi
Input Power			50	Watts

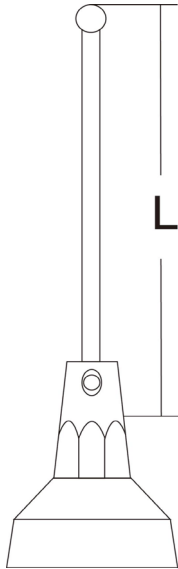
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [136-940MHz, 2.5 dBi Gain, Omni-directional Antenna with Magnetic NMO Mount, SMA-Male Connector PEANMOB1004-SM](#)

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Frequency(MHz)	136	138	142	146	150	154	158	162	166
Length(mm)	521	490	476	458	447	434	423	408	395

Frequency(MHz)	170	174	200	210	220	230	240	250	260
Length(mm)	390	383	334	315	297	285	269	259	247

Frequency(MHz)	270	280	290	300	310	320	330	340	350
Length(mm)	238	227	219	208	203	195	185	180	174

Frequency(MHz)	360	370	380	390	400	410	420	430	440
Length(mm)	170	165	160	156	150	148	145	139	136

Frequency(MHz)	450	460	470	480	490	500	510	520	540
Length(mm)	133	128	125	120	115	112	108	107	105

Frequency(MHz)	570	600	630	680	690	720	750	780	800
Length(mm)	101	98	92	89	87	82	77	74	71

Frequency(MHz)	810	820	830	840	850	860	870	880	890
Length(mm)	68	66	65	64	62	61	60	59	58

Frequency(MHz)	900	910	920	930	940
Length(mm)	57	56	55	54	53

### Mechanical Specifications

Radome Material

Stainless Steel

#### Size

Overall Length

20.49 in [520.45 mm]

Width

3 in [76.2 mm]

Height

3 in [76.2 mm]

Weight

1.24 lbs [562.45 g]

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

### Plotted and Other Data

Notes:

1: Loosen Screw, Sperate Whip and Base.

2: Find whip length of correct frequency according to cutting chart.

3: Measure the length of the steel whip and cut it from bottom side without cap.

4: Re-fix the steel whip and the base with screws.

136-940MHz, 2.5 dBi Gain, Omni-directional Antenna with Magnetic NMO Mount, SMA-Male 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.

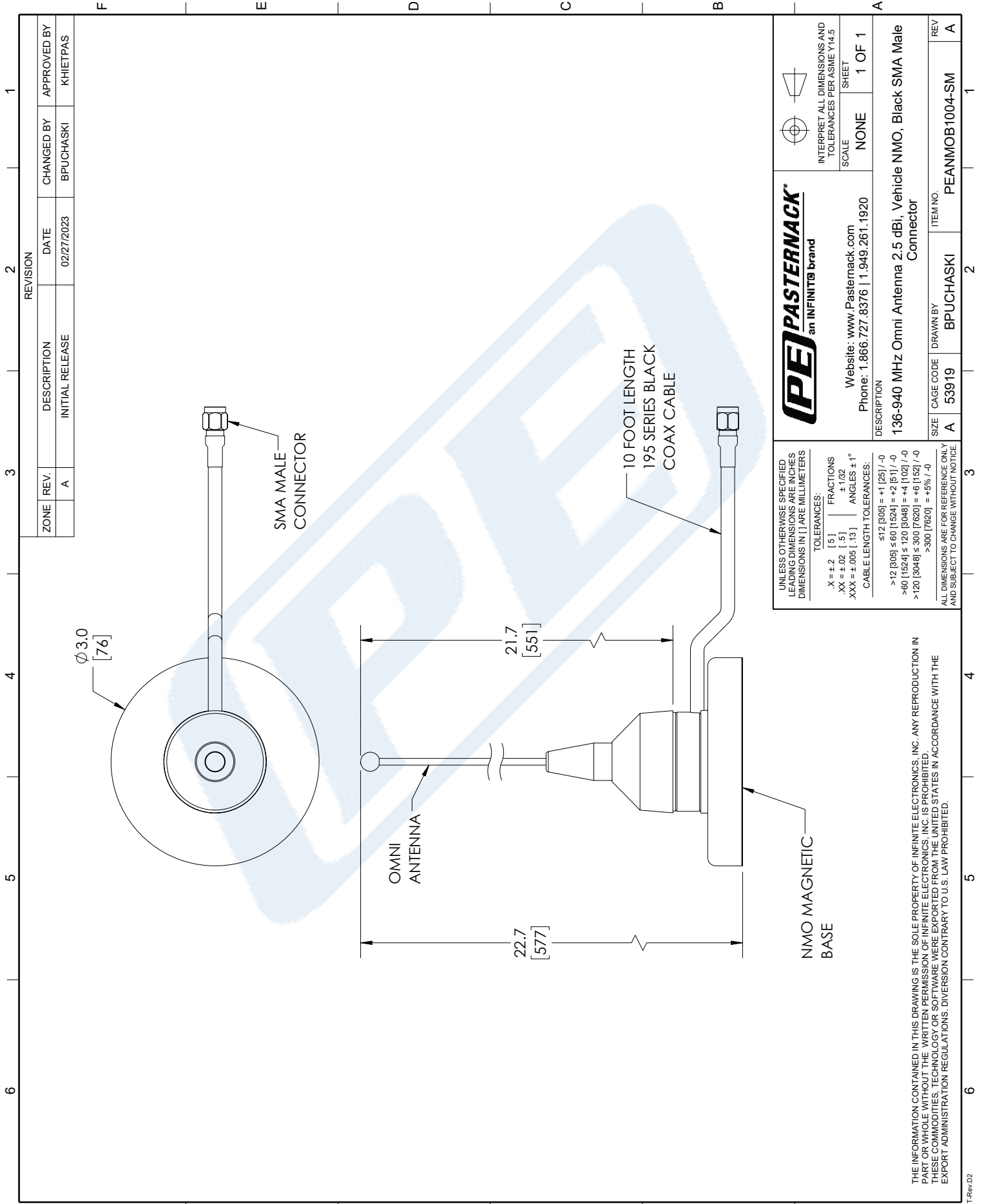
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URL: <https://www.pasternack.com/136-940mhz-2.5-dbi-gain-omni-directional-antenna-with-magnetic-nmo-mount-sma-male-connector-peanmob1004-sm-p.aspx>

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.

# PEANMOB1004-SM CAD Drawing

136-940MHz, 2.5 dBi Gain, Omni-directional Antenna with  
Magnetic NMO Mount, SMA-Male Connector



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

REVISION					
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5					
SCALE					
NONE					
SHEET					
1 OF 1					

DESCRIPTION					
136-940 MHz Omni Antenna 2.5 dBi, Vehicle NMO, Black SMA Male Connector					
Website: www.Pasternack.com					
Phone: 1.866.727.8376   1.949.261.1920					

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS					
TOLERANCES:					
X = ±.2 [5] FRACTIONS ±1/32					
.XX = ±.02 [.5] ANGLES ±1°					
XXX = ±.005 [.13] 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 AND SUBJECT TO CHANGE WITHOUT NOTICE					

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	BPUCHASKI	PEANMOB1004-SM	A