

# Helium Hotspot Antenna Upgrade Kit, 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable



## Antenna Kits Technical Data Sheet

## PEANKIT1008

### Features

- 900 MHz to 928 MHz
- Increased Proof-of-Coverage
- N-Male to RP-SMA Male Low loss CA-400 series coax cable (LMR-400 equivalent)
- Lightweight fiberglass radome
- Extruded aluminum mounting bracket
- COAX-SEAL<sup>®</sup> Hand Moldable Weatherproofing Tape

### Applications

- Helium Network (HNT) Mining
- 900 MHz ISM band
- US915, AU915, AS923, KR920
- M2M, LPWAN, LoRA, LoRaWAN, IoT, LongFi
- Industrial & Environmental Monitoring
- Smart Metering Applications
- Inventory Tracking
- Non Line of Sight (NLOS)

### Description

The PEANKIT1008 Helium Hotspot Antenna Upgrade kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1008 provides your LongFi radio with the proper components to get the most out of your hotspot with optimized range and increased Proof-of-Coverage over OEM components.

The PEANKIT1008 achieves enhanced performance by utilizing Pasternack's 900 MHz lightweight, low-profile, high-performance Omni-directional antennas designed for the 900 MHz ISM band. These LoRa, LoRaWAN antennas feature all-weather UV-stable fiberglass radome for durability and aesthetics. The PEANKIT1008 comes with a 8 dBi Omni Antenna that operates from 900 MHz to 928 MHz frequency range.

Combined with our Low Loss 400 series cable, the 400 cable features equal performance and mechanical characteristics to cables from CommScope<sup>®</sup>, Times Microwave Systems<sup>®</sup>, Belden<sup>®</sup> and Andrew<sup>®</sup>. This 6 ft Low Loss cable comes terminated with an N Male connector, to the antenna, and an RP-SMA Male connector compatible with the leading Hotspot miners on the market. The PEANKIT1008 from Pasternack brings industry proven components direct to the Helium enthusiast, ship worldwide the same day as with our other available RF parts.

### Configuration

Design	Omni
Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Cable Type	400 Series
Cable Length	72 in [182.88 cm]
Connector Type	N Female
Number of Ports	1

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	900		928	MHz
Input VSWR		1.6:1	1.6:1	
Impedance		50		Ohms
Gain		8		dBi
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		15		Degrees
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: [Helium Hotspot Antenna Upgrade Kit, 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1008](#)

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**Cable Assembly**

Cable Type	400 Series
Impedance	50 Ohms
Connector 1	N Male
Connector 2	SMA Plug Reverse Polarity

**Mechanical Specifications**

Radome Material	Fiberglass
<b>Size</b>	
Overall Length	65 in [165.1 cm]
Width	10 in [254 mm]
Height	3 in [76.2 mm]
Mounting Mast Diameter	2 in [50.80 mm]
Weight	3 lbs [1.36 kg]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +60 deg C
Wind Loading	130 MPH [209.21 KPH]

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

**Plotted and Other Data**

Notes:

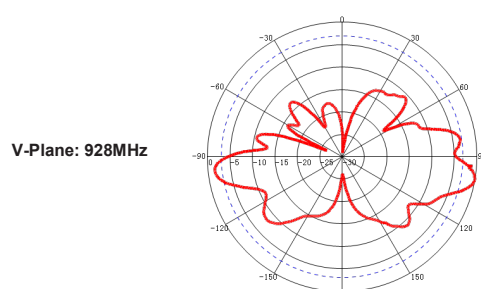
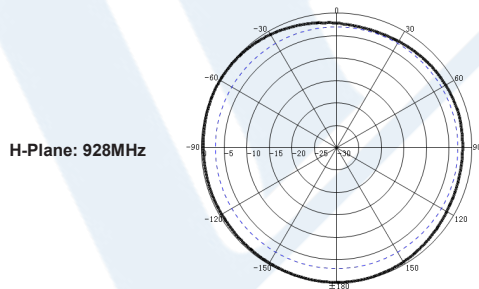
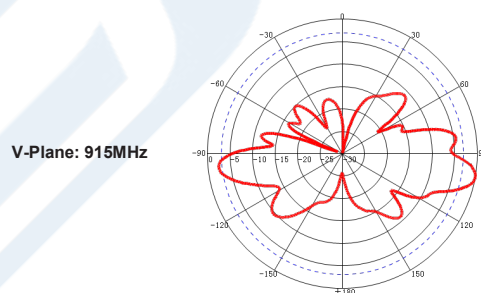
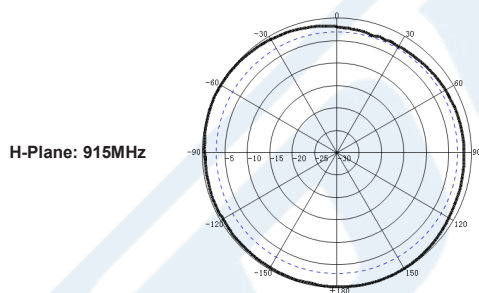
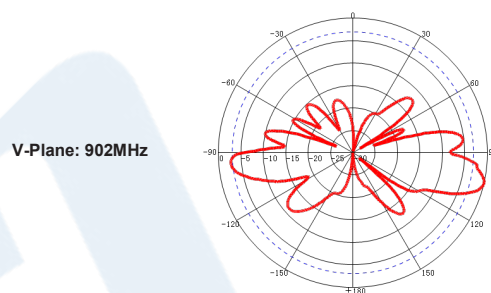
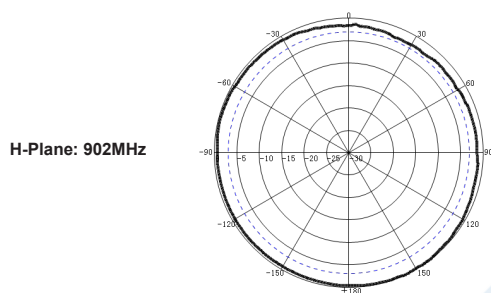
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### PEANKIT1008

Helium Hotspot Antenna Upgrade Kit, 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable 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.

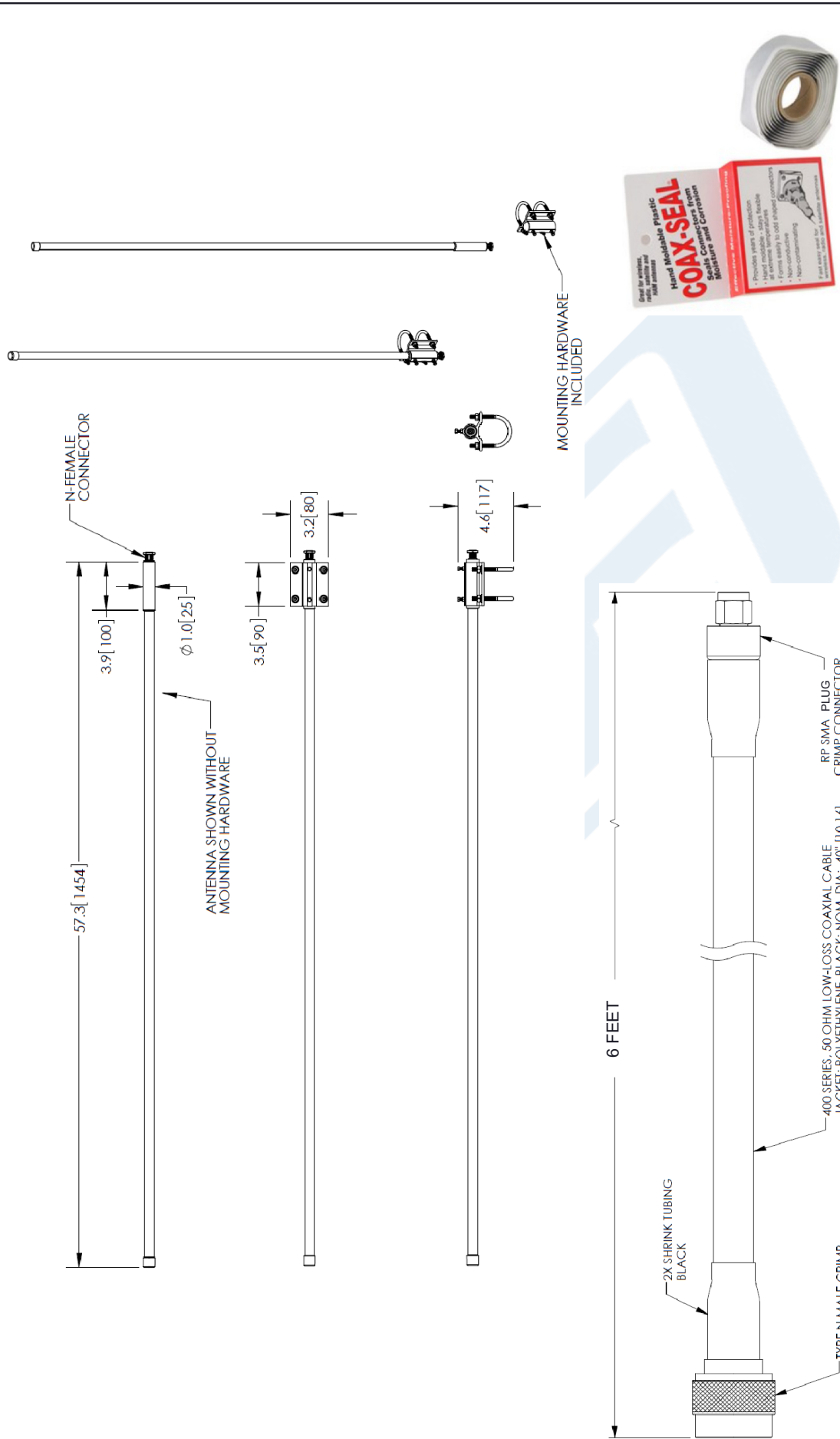
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Helium Hotspot Antenna Upgrade Kit, 8dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1008](https://www.pasternack.com/antenna-kit-8dbi-900mhz-omni-w-n-male-to-rp-sma-male-6ft-low-loss-400-cable-peankit1008-p.aspx)

URL: <https://www.pasternack.com/antenna-kit-8dbi-900mhz-omni-w-n-male-to-rp-sma-male-6ft-low-loss-400-cable-peankit1008-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	4/6/2022	K. HIETPAS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p>	<p><b>PE PASTERNAK®</b> an INFINITE® brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: <a href="http://www.pasternack.com">www.pasternack.com</a> E-mail: <a href="mailto:sales@pasternack.com">sales@pasternack.com</a></p>	<p>THIRD-ANGLE PROJECTION</p>  <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p>	<p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	<p>REV A</p>
<p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>TOLERANCES:</p> <p>X = ± .2 [ .008 ]      FRACTIONS .XX = ± .02 [ .51 ]      1/32 XXX = ± .005 [ .13 ]      ANGLES ± °</p> <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0 12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0 60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0 120 [3048] &lt; L ≤ 300 [7620] = +6 [192] / -0 300 [7620] &lt; L = +5% / -0</p>	<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PEANKIT1008</p>		

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