

Helium Hotspot Antenna Upgrade Kit, 6dBi  
900MHz Omni w/ N Male to RP-SMA Plug, 10ft  
Low Loss 400 Cable and Lightning Protector



**Antenna Kits Technical Data Sheet**

**PEANKIT1006**

**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
- Integral lightning surge protector with multi-strike capability and replaceable gas tube
- 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 PEANKIT1006 Helium Hotspot Antenna Upgrade kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1006 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 PEANKIT1006 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 PEANKIT1006 comes with a 6 dBi Omni Antenna that operates from 900 MHz to 928 MHz frequency range.

Combined with our Low Loss 400 series cable with integrated Lightning Protector, 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 10 ft Low Loss cable comes terminated with an N Male in-line gas discharge tube suppressor, to the antenna, and an RP-SMA Male connector compatible with the leading Hotspot miners on the market. The PEANKIT1006 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         | 120 in [304.8 cm]   |
| Connector Type       | N Female            |
| Number of Ports      | 1                   |
| Lightning Protection | Lightning Protector |

**Electrical Specifications**

| Description                     | Minimum | Typical         | Maximum | Units |
|---------------------------------|---------|-----------------|---------|-------|
| Frequency Range                 | 900     |                 | 928     | MHz   |
| Input VSWR                      |         | 1.6:1           |         |       |
| Impedance                       |         | 50              |         | Ohms  |
| Gain                            |         | 6               |         | dBi   |
| Horizontal (Azimuth) Beam Width |         | Omnidirectional |         |       |

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, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector PEANKIT1006](#)

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|                                 |    |         |
|---------------------------------|----|---------|
| Vertical (Elevation) Beam Width | 35 | Degrees |
| Input Power                     | 50 | Watts   |

### 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         | 31 in [787.4 mm] |
| Width                  | 10 in [254 mm]   |
| Height                 | 3 in [76.2 mm]   |
| Mounting Mast Diameter | 2 in [50.80 mm]  |
| Weight                 | 4 lbs [1.81 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:

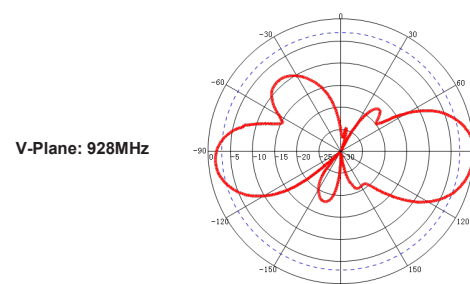
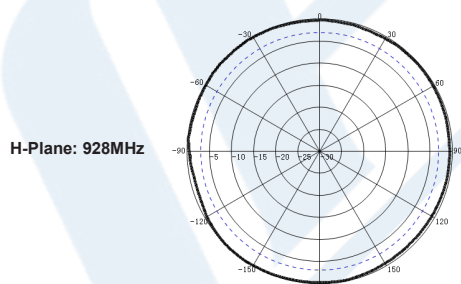
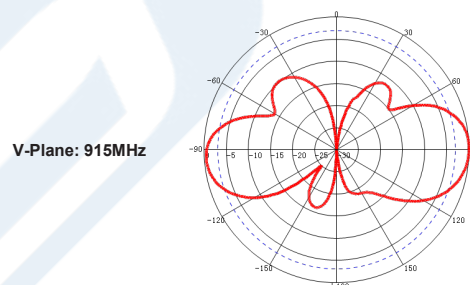
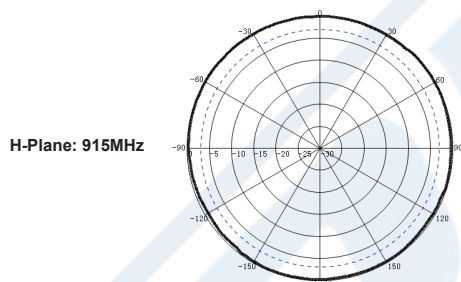
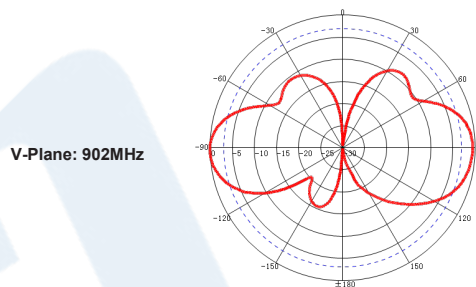
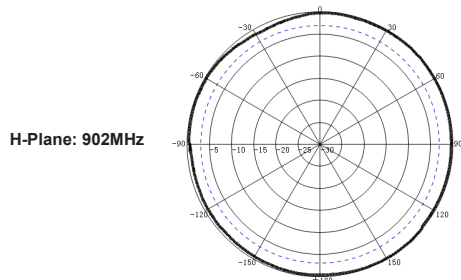
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Helium Hotspot Antenna Upgrade Kit, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter 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, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable and Lightning Protector PEANKIT1006](https://www.pasternack.com/antenna-kit-6dbi-900mhz-omni-w-n-male-to-rp-sma-male-10ft-low-loss-400-cable-and-lightning-protector-peankit1006-p.aspx)

URL: <https://www.pasternack.com/antenna-kit-6dbi-900mhz-omni-w-n-male-to-rp-sma-male-10ft-low-loss-400-cable-and-lightning-protector-peankit1006-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.

# PEANKIT1006 CAD Drawing

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