



Helium Hotspot HD Antenna Upgrade Kit, 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable

Antenna Kits Technical Data Sheet

PEANKIT1020

Features

- 824 MHz to 960 MHz
- Increased Proof-of-Coverage
- Heavy duty all weather plastic radome
- N-Male to RP-SMA Male Low loss CA-400 series coax cable (LMR-400 equivalent)
- Can be installed for vertical or horizontal polarization
- Direct ground protection
- Includes tilt and swivel mast mount
- COAX-SEAL® Hand Moldable Weatherproofing Tape

Applications

- Helium Network (HNT) Mining
- 900 MHz ISM band
- US915, EU868, AU915, AS923, KR920
- M2M, LPWAN, LoRa, LoRaWAN, IoT, LongFi
- Industrial & Environmental Monitoring
- Smart Metering Applications
- Inventory Tracking
- Non Line of Sight (NLOS)

Description

The PEANKIT1020 Helium Hotspot HD Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1020 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 PEANKIT1020 achieves enhanced performance by utilizing Pasternack's 900 MHz Heavy Duty high-performance Flat Panel antenna designed for the 900 MHz ISM band. This LoRa, LoRaWAN antenna features a heavy-duty UV-stable plastic radome for all weather operation. The PEANKIT1020 comes with a 9 dBi Flat Panel Antenna that operates from 824 MHz to 960 MHz frequency range.

Combined with our Low Loss 400 series cable, the 400 cable features equal performance and mechanical characteristics to cables from CommScope®, Times Microwave Systems®, Belden® and Andrew®. 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 PEANKIT1020 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 | Panel |
| Application Band | RFID, SCADA, LPWAN, ISM, Cellular |
| Band Type | Wide |
| Radiation Pattern | Directional |
| Polarization | Vertical or Horizontal |
| 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 |
|---------------------------------|---------|---------|---------|---------|
| Input VSWR | | 1.8:1 | 1.8:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 9 | | dBi |
| Horizontal (Azimuth) Beam Width | | 60 | | Degrees |
| Vertical (Elevation) Beam Width | | 70 | | Degrees |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Helium Hotspot HD Antenna Upgrade Kit, 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1020](#)



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Input Power 10 Watts

Cable Assembly

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

Specifications by Band

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|---------------------|--------|--------|--------|--------|--------|-------|
| Gain | 9 | | | | | dBi |
| Maximum Input Power | 10 | | | | | Watts |

Mechanical Specifications

Radome Material UV-inhibited Polymer

Size

Overall Length 15 in [381 mm]
Width 15 in [381 mm]
Height 4 in [101.6 mm]
Weight 5.35 lbs [2.43 kg]

Environmental Specifications

Wind Loading 130 MPH [209.21 KPH]

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

Plotted and Other Data

Notes:

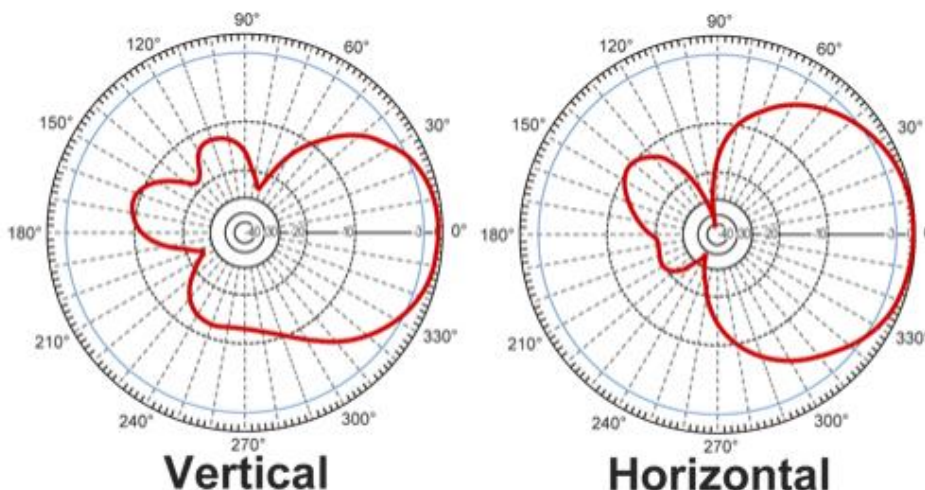
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Helium Hotspot HD Antenna Upgrade Kit, 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain 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 HD Antenna Upgrade Kit, 9dBi 900MHz Panel w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1020](https://www.pasternack.com/hd-antenna-kit-9dbi-900mhz-panel-w-n-male-to-rp-sma-male-6ft-low-loss-400-cable-peankit1020-p.aspx)

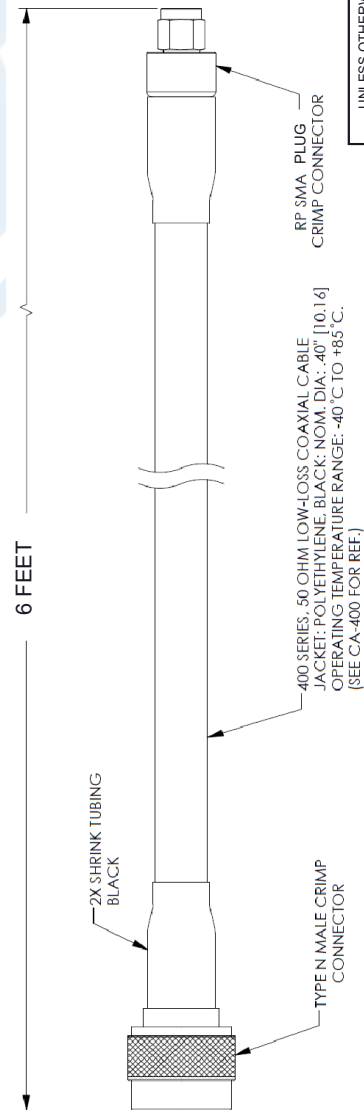
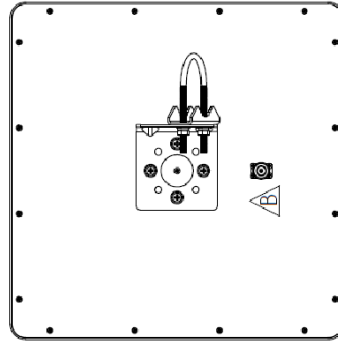
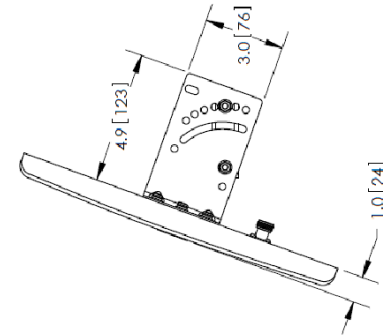
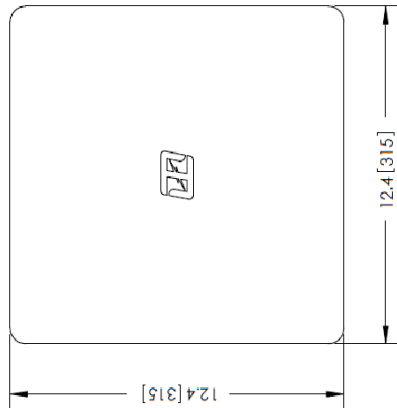
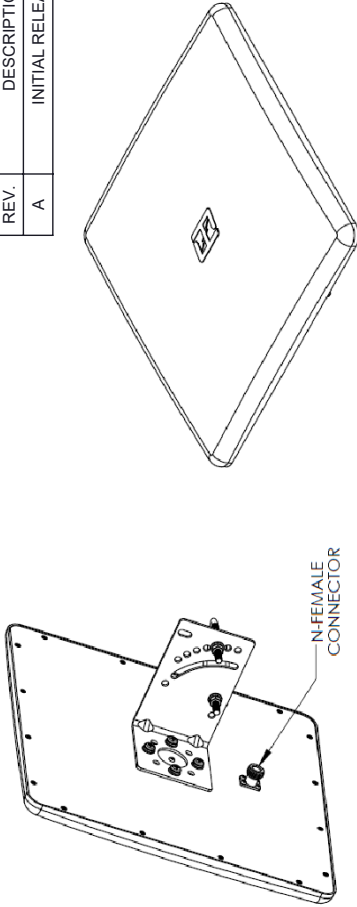
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PEANKIT1020 CAD Drawing

Helium Hotspot HD Antenna Upgrade Kit, 9dBi 900MHz Panel
w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable

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



| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | | |
|--|--------|-------------|--------|
| TOLERANCES: | | | |
| .X = ±.2 | [.508] | FRACTIONS | |
| .XX = ±.02 | [.51] | | ± 1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° | |
| CABLE LENGTH (L) TOLERANCES: | | | |
| L ≤ 12 [305] = +1 [25] / -0 | | | |
| 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 | | | |
| 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 | | | |
| 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 | | | |
| 300 [7620] < L = +5% / -0 | | | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | |

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|---|-----------|----------|-------------|
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| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | K.DANG | PEANKIT1020 |
| REV | | | A |

| THIRD-ANGLE PROJECTION | | | |
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| SHEET 1 OF 1 | | | |
| SCALE N/A | | | |