



Helium Hotspot Antenna Upgrade Kit, 3dBi  
800MHz Omni w/ N Male to RP-SMA Plug, 20ft  
Low Loss 400 Cable and Lightning Protector

## Antenna Kits Technical Data Sheet

## PEANKIT1027

### Features

- 824 MHz to 876 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
- Heavy-duty steel mounting bracket
- COAX-SEAL® Hand Moldable Weatherproofing Tape

### Applications

- Helium Network (HNT) Mining
- 800 MHz EU ISM band
- EU868, IN865, RU864
- M2M, LPWAN, LoRA, LoRaWAN, IoT, LongFi
- Industrial & Environmental Monitoring
- Smart Metering Applications
- Inventory Tracking
- Non Line of Sight (NLOS)

### Description

The PEANKIT1027 EU Helium Hotspot Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1027 provides your LongFi radio with the proper components to get the most out of your hotspot with optimized range, increased witnessing and Proof-of-Coverage over OEM components.

The PEANKIT1027 achieves enhanced performance by utilizing Pasternack's 800 MHz high-performance Omni-directional antennas designed for the 800 MHz European ISM band. These LoRa, LoRaWAN antennas feature a rugged 1.3" diameter UV-stable fiberglass radome for durability, aesthetics and long service life. The PEANKIT1027 comes with a 3 dBi Omni Antenna that operates from 824 MHz to 876 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®, Times Microwave Systems®, Belden® and Andrew®. This 20 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 PEANKIT1027 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	240 in [609.6 cm]
Connector Type	N Female
Number of Ports	1
Lightning Protection	Lightning Protector

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	824		876	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms

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, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1027](#)



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Gain	3	dBi
Horizontal (Azimuth) Beam Width	360	Degrees
Vertical (Elevation) Beam Width	70	Degrees
Input Power	100	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>	
Radome Diameter	1.3 in [33.02 mm]
Overall Length	70 in [177.8 cm]
Width	10 in [254 mm]
Height	4 in [101.6 mm]
Mounting Mast Diameter	1.2 to 2 in [30.48 to 50.80 mm]
Weight	8 lbs [3.63 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, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, micro-wave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

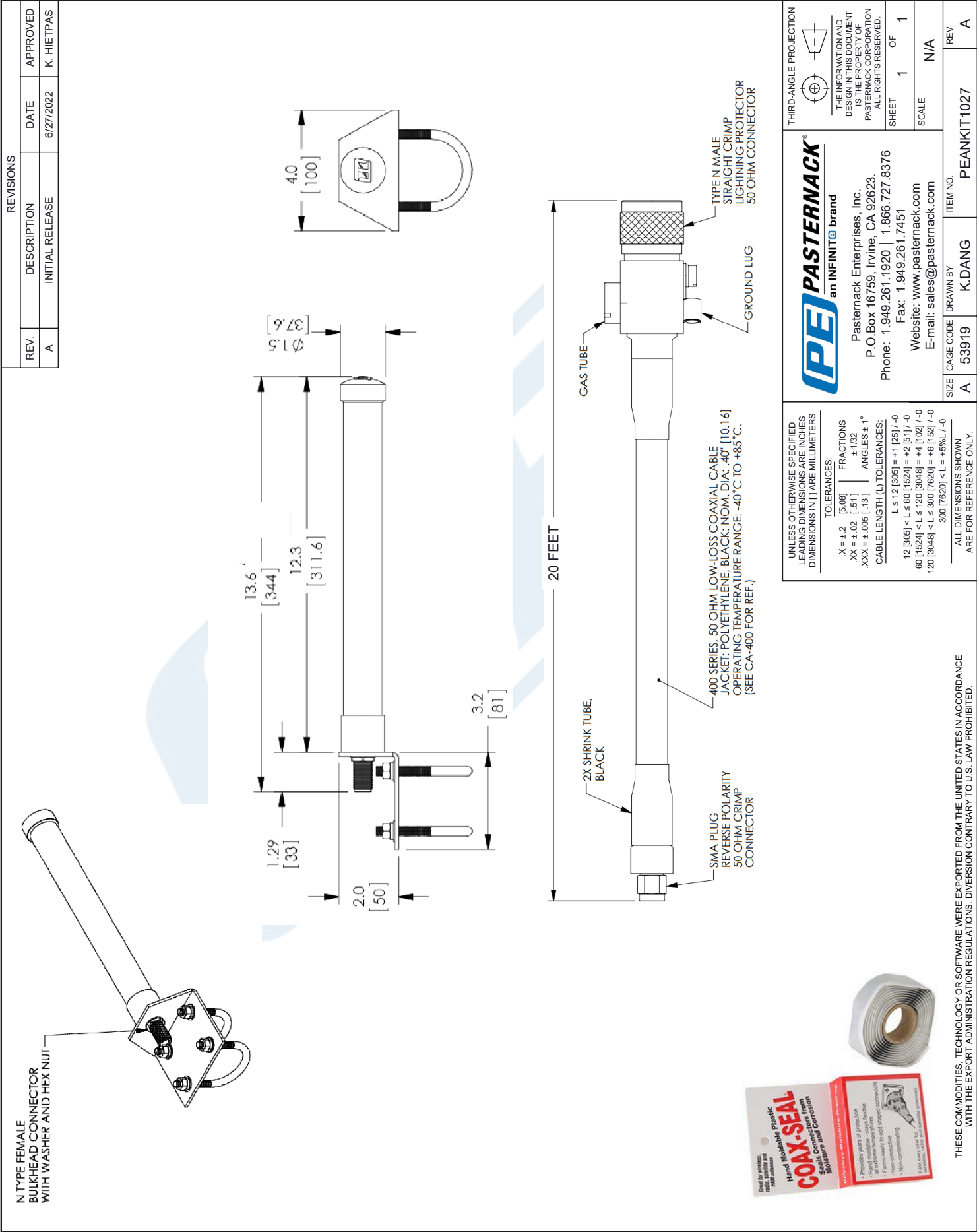
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Helium Hotspot Antenna Upgrade Kit, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector PEANKIT1027](https://www.pasternack.com/helium-hotspot-antenna-upgrade-kit-3dbi-800mhz-omni-n-male-rp-sma-plug-20ft-low-loss-400-cable-lightning-protector-lcankit1027-p.aspx)

URL: <https://www.pasternack.com/helium-hotspot-antenna-upgrade-kit-6dbi-800mhz-omni-n-male-rp-sma-plug-20ft-low-loss-400-cable-lightning-protector-lcankit1027-p.aspx>

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# PEANKIT1027 CAD Drawing

Helium Hotspot Antenna Upgrade Kit, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 20ft Low Loss 400 Cable and Lightning Protector



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	6/27/2022
		APPROVED
		K. HIETPAS

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

TOLERANCES:

X = ±.2	[.508]	FRACTIONS
.XX = +.02	[.51]	±.132
.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.

THIRD-ANGLE PROJECTION

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SCALE N/A

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PEANKIT1027
REV			A



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