PASTERNACK
an INFINITE brand

Helium Hotspot Antenna Upgrade Kit, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable

Antenna Kits Technical Data Sheet   PEANKIT1025

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
- 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 PEANKIT1025 EU Helium Hotspot Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1025 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 PEANKIT1025 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 PEANKIT1025 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, the 400 cable features equal performance and mechanical characteristics to cables from CommScope®, Times Microwave Systems®, Belden® and Andrew®. This 10 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 PEANKIT1025 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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	824		876	MHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		3		dBi
Horizontal (Azimuth) Beam Width		360		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 Antenna Upgrade Kit, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable PEANKIT1025

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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

Size
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	0.72 lbs [326.59 g]

Environmental Specifications
Temperature
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, 10ft Low Loss 400 Cable

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Helium Hotspot Antenna Upgrade Kit, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 10ft 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, 3dBi 800MHz Omni w/ N Male to RP-SMA Plug, 10ft Low Loss 400 Cable PEANKIT1025
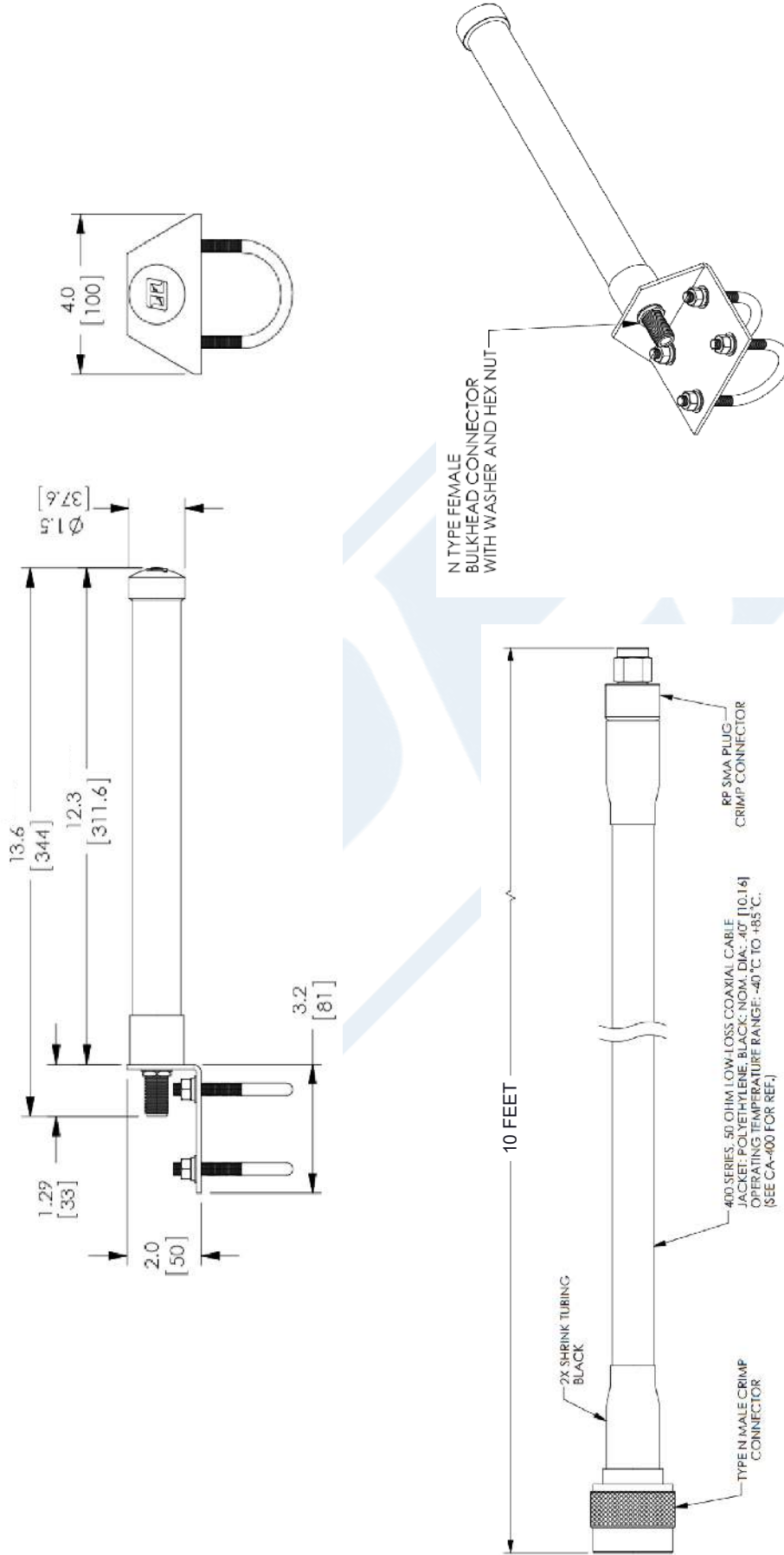
URL: https://www.pasternack.com/helium-hotspot-antenna-upgrade-kit-6dbi-800mhz-omni-n-male-rp-sma-plug-10ft-low-loss-400-cable-lcankit1025-p.aspx

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.

PEANKIT1025 **CAD Drawing**

Helium Hotspot Antenna Upgrade Kit, 3dBi 800MHz Omni w/
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REVISIONS

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

N TYPE FEMALE
BULKHEAD CONNECTOR
WITH WASHER AND HEX NUT

4.0 [100]

Ø1.5 [37.6]

13.6 [344]

12.3 [311.6]

3.2 [81]

1.29 [33]

2.0 [50]

RP SMA PLUG
CRIMP CONNECTOR

400 SERIES, 50 OHM LOW-LOSS COAXIAL CABLE
JACKET: POLYETHYLENE, BLACK; NOM. DIA: .40" [10.16]
OPERATING TEMPERATURE RANGE: -40°C TO +85°C.
(SEE CA-400 FOR REF.)

10 FEET

2X SHRINK TUBING
BLACK

TYPE N MALE CRIMP
CONNECTOR

COAX-SEAL

SHEET 1 OF 1

SCALE N/A

REV A

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PEANKIT1025

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

TOLERANCES:
X = ± .2 [5.08]
.XX = ± .02 [.51]
.XXX = ± .005 [.13]

FRACTIONS ± 1/32
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%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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T-Rev.D