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

Antenna Kits Technical Data Sheet   PEANKIT1012

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
- Heavy-duty steel mounting bracket
- COAX-SEAL® 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 PEANKIT1012 Helium Hotspot PRO Antenna Upgrade Kit from Pasternack was designed with the serious Helium HNT Miner in mind. PEANKIT1012 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 PEANKIT1012 achieves enhanced performance by utilizing Pasternack's 900 MHz PRO-Series high-performance Omni-directional antennas designed for the 900 MHz ISM band. These LoRa, LoRaWAN antennas feature a rugged 1.58" diameter UV-stable fiberglass radome for durability, aesthetics and long service life. The PEANKIT1012 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, 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 PEANKIT1012 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		1.5:1	1.5:1	
Impedance		50		Ohms
Gain		6		dBi
Horizontal (Azimuth) Beam Width		Omnidirectional		
Vertical (Elevation) Beam Width		19		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 PRO Antenna Upgrade Kit, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1012

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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

Size

Overall Length	48 in [121.92 cm]
Width	10 in [254 mm]
Height	4 in [101.6 mm]
Weight	11 lbs [4.99 kg]

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)
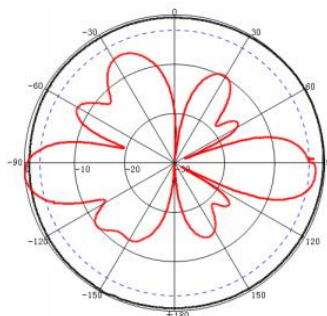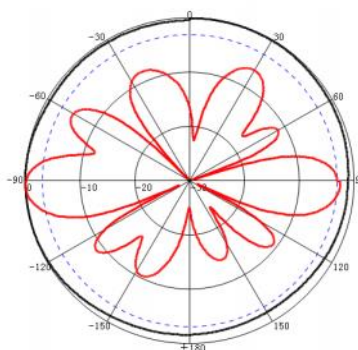
Plotted and Other Data
Notes:

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Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com

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Antenna Kits Technical Data Sheet
PEANKIT1012

Freq:900MHz
Date:2014-04-01
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.06dB
HPBW(3dB):360.00°
FBR:0.36dB

Freq:900MHz
Date:2014-04-01
Elevation:V-plane
Polar-Across:Main
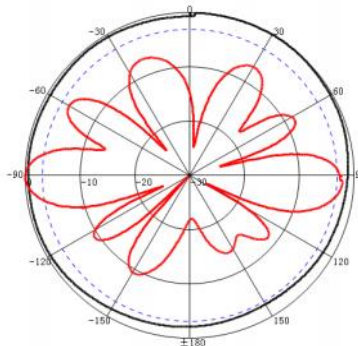Polarization:Vertical
Max:-10.03dB
HPBW(3dB):21.60°
FBR:1.79dB

Gain:5.74dBi

Freq:914MHz
Date:2014-04-01
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.24dB
HPBW(3dB):360.00°
FBR:0.53dB

Freq:914MHz
Date:2014-04-01
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-9.04dB
HPBW(3dB):19.65°
FBR:2.49dB

Gain:5.91dBi

Freq:928MHz
Date:2014-04-01
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.26dB
HPBW(3dB):360.00°
FBR:0.59dB

Freq:928MHz
Date:2014-04-01
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-9.96dB
HPBW(3dB):18.07°
FBR:2.04dB

Gain:5.89dBi

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Helium Hotspot PRO Antenna Upgrade Kit, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1012

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Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable

Antenna Kits Technical Data Sheet   PEANKIT1012

Helium Hotspot PRO Antenna Upgrade Kit, 6dBi 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 PRO Antenna Upgrade Kit, 6dBi 900MHz Omni w/ N Male to RP-SMA Plug, 6ft Low Loss 400 Cable PEANKIT1012
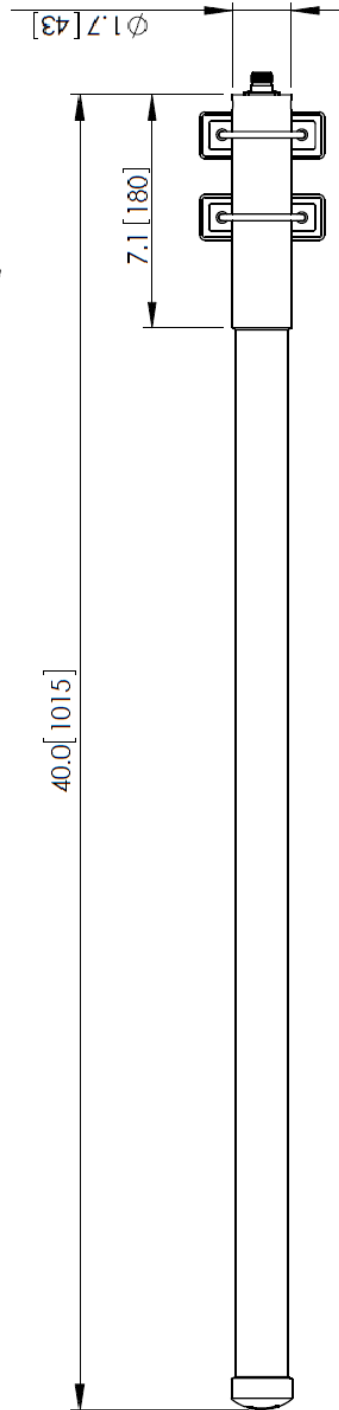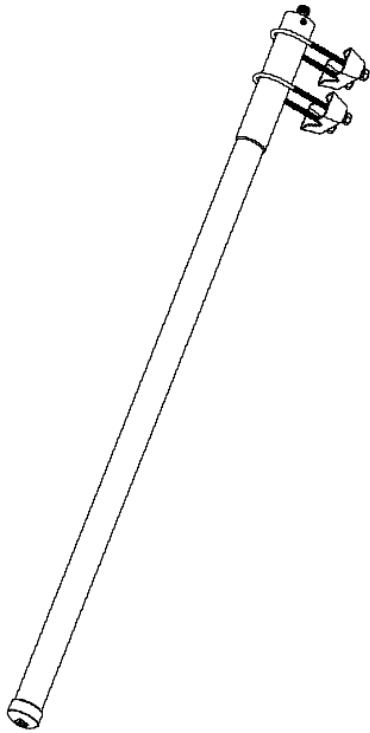
URL: https://www.pasternack.com/pro-antenna-kit-6dbi-900mhz-omni-w-n-male-to-rp-sma-male-6ft-low-loss-400-cable-peankit1012-p.aspx

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.
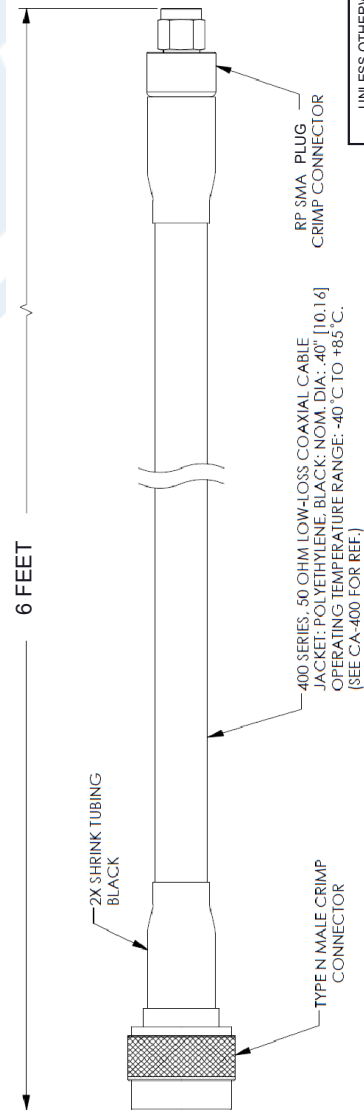
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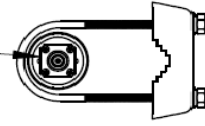
PEANKIT1012 **CAD Drawing**

Helium Hotspot PRO Antenna Upgrade Kit, 6dBi 900MHz Omni
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

N-FEMALE CONNECTOR

Ø 1.7 [43]

7.1 [180]

40.0 [1015]

6 FEET

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.)

2X SHRINK TUBING BLACK

TYPE N MALE CRIMP CONNECTOR

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

TOLERANCES:

.X = ± .2   [5.08]   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%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PEANKIT1012

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

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T-Rev.D

PEANKIT1012 REV 1