



2400 to 2500 MHz, RFID Flat Panel Antenna,
 18 dBi Gain N-Type female, ABS Radome, RHCP

Antennas Technical Data Sheet

PEANFP1020

Features

- High Performance Multi-tag read/write Capabilities
- Lightweight, Concealable Design
- Right Hand Circular Polarized
- 2.4 to 2.5 GHz Frequency Range
- Type N Female Connector

Applications

- Radio Frequency Identification
- Inventory Management
- Access Control
- Data Collection
- Asset Tracking
- Livestock Management

Description

Pasternack's PEANFP1020 is a Directional RFID flat panel RHCP antenna. The PEANFP1020 with a 18 dBi gain nominal is a Directional antenna. Our 2400-2500 MHz N-Type female connector, flat panel antenna has a gain of 18 dBi.

With an impedance of 50 Ohms and max input power of 50 Watts, the PEANFP1020 RFID flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. Contact Pasternack's antenna experts for any assistance on 2400-2500 MHz, 18 dBi N-Type female connector antennas. This 18 dBi gain RFID antenna is highly directional providing the reader radio the capabilities of simultaneously reading a multitude of RFID tags with a high degree of accuracy.

Pasternack's RFID PEANFP1020 has a radome made of ABS in White color and comes from a facility certified to ISO 9001:2015. RHCP flat panel antenna comes with mounting hardware and ABS radome. The included hardware along with Threaded female connector and ABS radome, makes installation effortless.

This N-Type connectized Antenna has an overall length of 15 in, width of 15 in, and weighs 3.5 lbs. Use our on-line ordering system to purchase your PEANFP1020 RFID Directional RHCP antenna 24 hours a day with same-day shipping and no MOQs (minimum order quantities).

Configuration

Design	Flat Panel
Application Band	RFID
Band Type	Single
Radiation Pattern	Directional
Polarization	RHCP
Connector Type	N Female
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		2,500	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		18		dB
Front to Back Ratio		18		dB
Horizontal (Azimuth) Beam Width		20		Degrees
Vertical (Elevation) Beam Width		17		Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2400 to 2500 MHz, RFID Flat Panel Antenna, 18 dBi Gain N-Type female, ABS Radome, RHCP PEANFP1020](#)



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Input Power

50

Watts

Mechanical Specifications

Radome Material

ABS

Size

Overall Length

15 in [381 mm]

Width

15 in [381 mm]

Height

1 in [25.4 mm]

Weight

2.928 lbs [1.33 kg]

Environmental Specifications

Temperature

Operating Range

-40 to +60 deg C

Wind Loading

134.22 MPH [216.01 KPH]

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

Plotted and Other Data

Notes:

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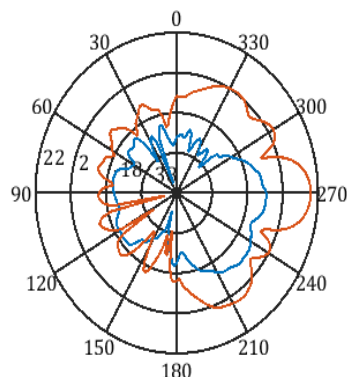


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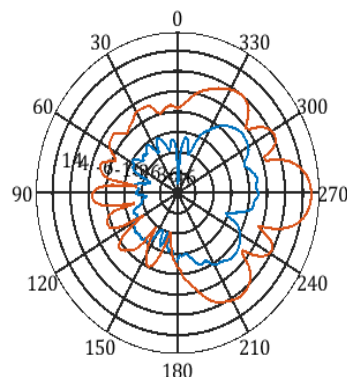
PEANFP1020

2D Pattern: @phi=90(Vertical)



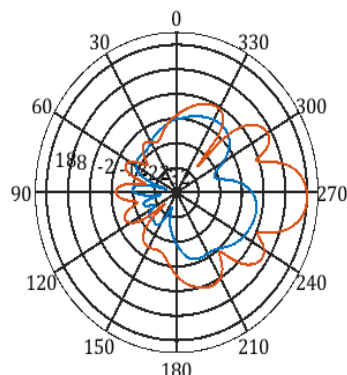
f=2300MHz, @Y-Z plane

2D Pattern: @phi=90(Vertical)



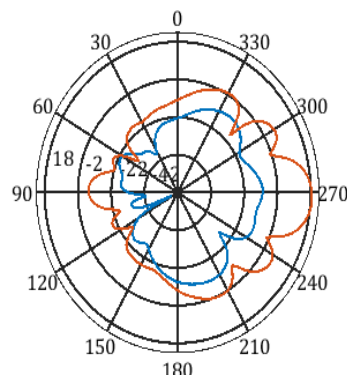
f=2400MHz, @Y-Z plane

2D Pattern: @theta=90+tilt(Horizontal)



f=2300MHz, X-Y Plane

2D Pattern: @theta=90+tilt(Horizontal)



f=2400MHz, X-Y Plane

2D Pattern: Co@2-cuts

2D Pattern: Co@2-cuts

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2400 to 2500 MHz MHz, RFID Flat Panel Antenna, 18 dBi Gain N-Type female, ABS Radome, RHCP 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: [2400 to 2500 MHz MHz, RFID Flat Panel Antenna, 18 dBi Gain N-Type female, ABS Radome, RHCP PEANFP1020](https://www.pasternack.com/18-db-flat-panel-antenna-2400-2500-mhz-n-type-female-connector-peanfp1020-p.aspx)

URL: <https://www.pasternack.com/18-db-flat-panel-antenna-2400-2500-mhz-n-type-female-connector-peanfp1020-p.aspx>

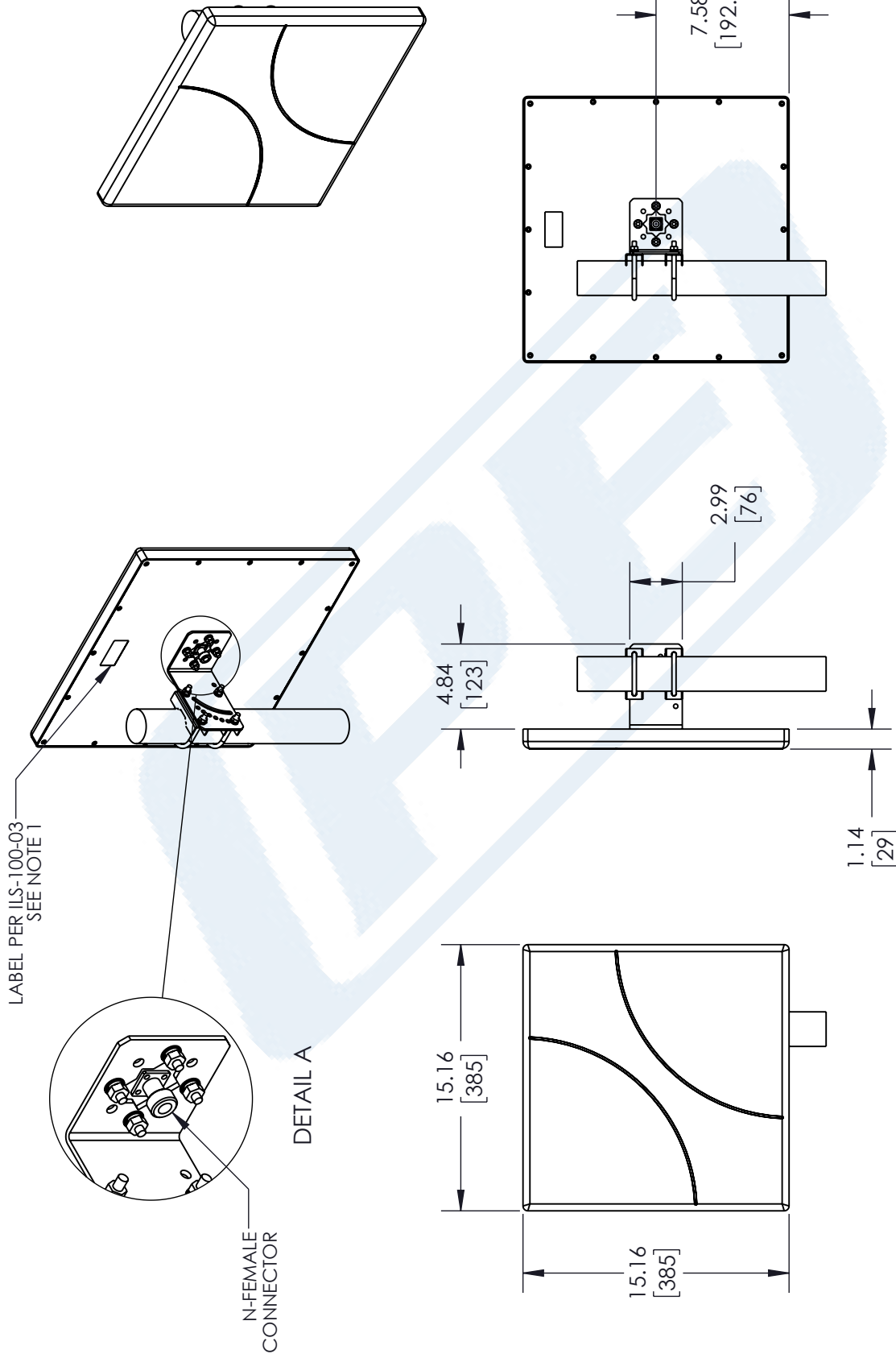
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PEANFP1020 CAD Drawing

2400 to 2500 MHz MHz, RFID Flat Panel Antenna, 18 dBi

Gain N-Type female, ABS Radome, RHCP

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/12/22	KHIETPAS



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

TOLERANCES:

X = ±.2	[.008]	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.

PE PASTERNAK
an INFINITI® brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

SIZE A

CAGE CODE 53919

DRAWN BY VTHANGARAJ

ITEM NO. PEANFP1020

- NOTES:
- LABEL PER ILS-100-03 (FOR INTERNAL USE ONLY).
LABEL LOCATION SHOWN IS FOR REFERENCE ONLY.
- REGULATORY COMPLIANCE:**
EU RoHS DIRECTIVE (MOST RECENT RELEASED VERSION)

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