



902 to 928 MHz RFID Flat Panel Antenna, RHCP,
6 dBi, White ABS, SMA Female, IP65

Antennas Technical Data Sheet

PEANFP1031

Features

- High Performance Multi-tag read/write Capabilities
- Concealable Design
- Right Hand Circular Polarized
- 902 to 928 MHz Frequency Range
- SMA Female Connector
- IP65 Rated

Applications

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

Description

Pasternack's PEANFP1031 is a RHCP RFID flat panel antenna. The PEANFP1031 with a 6 dBi gain nominal is a Directional antenna. Our 902 to 928 MHz antenna has SMA Female connector and is IP65 Rated.

With an impedance of 50 Ohms and max input power of 50 Watts, the PEANFP1031 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 6 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 PEANFP1031 has a radome made of ABS in White color and comes from a facility certified to ISO 9001:2015. This SMA Female connectized Antenna has an overall length of 5 in, width of 5 in, and weighs 1.001 lbs. Use our on-line ordering system to purchase your PEANFP1031 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	SMA Female
Lightning Protection	Direct Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	902		928	MHz
Input VSWR			1.3:1	
Impedance		50		Ohms
Gain		6		dBi
Horizontal (Azimuth) Beam Width		106		Degrees
Vertical (Elevation) Beam Width		106		Degrees
Input Power			50	Watts
Axial Ratio		2		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [902 to 928 MHz RFID Flat Panel Antenna, RHCP, 6 dBi, White ABS, SMA Female, IP65 PEANFP1031](#)



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Mechanical Specifications

Radome Material	ABS
Size	
Overall Length	5 in [127 mm]
Width	5 in [127 mm]
Height	0.7 in [17.78 mm]
Weight	1.001 lbs [454.05 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +55 deg C
Ingress Protection	IP65

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

Plotted and Other Data

Notes:

902 to 928 MHz RFID Flat Panel Antenna, RHCP, 6 dBi, White ABS, SMA Female, IP65 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.

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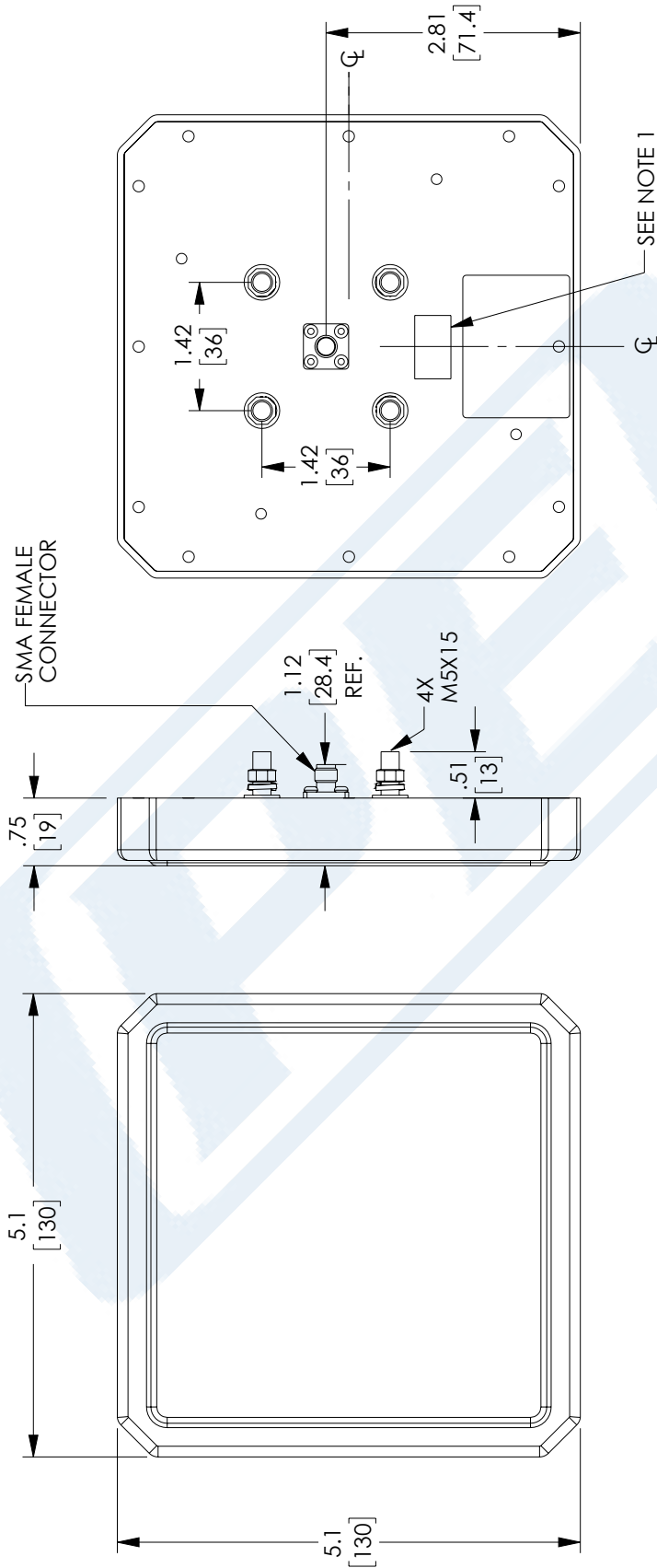
URL: <https://www.pasternack.com/6-dbi-flat-panel-antenna-902-928-mhz-sma-female-connector-peanfp1031-p.aspx>

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.

PEANFP1031 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/26/2022	KHIETPAS



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an INFINITI[®] brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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.

NOTES:

- LABEL PER ILS-100-05 (FOR INTERNAL USE ONLY)
LABEL LOCATION SHOWN FOR REFERENCE ONLY

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