

902 to 928 MHz, RFID Flat Panel Antenna, 1.5 dBi
Gain SMA Male, EVA Radome, RHCP

Antennas Technical Data Sheet

PEANFP1047

Features

- High Performance Multi-tag read/write Capabilities
- Lightweight, Concealable Design
- Right Hand Circular Polarized
- 902 to 928 MHz Frequency Range
- 2 Meter Cable
- SMA Male Connector

Applications

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

Description

Pasternack's PEANFP1047 is a RHCP RFID flat panel antenna. The PEANFP1047 with a 1.5 dBi gain nominal is a Directional antenna. Our 902 to 928 MHz antenna has SMA Male connector.

With an impedance of 50 Ohms and max input power of 20 Watts, the PEANFP1047 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 1.5 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 PEANFP1047 has a radome made of EVA in Black color and comes from a facility certified to ISO 9001:2015. This SMA Male connectized Antenna has an overall length of 11 in, width of 5 in, and weighs 0.2866 lbs. Use our on-line ordering system to purchase your PEANFP1047 RFID Directional RHCP antenna 24 hours a day with same-day shipping and no MOQs (minimum order quantities).

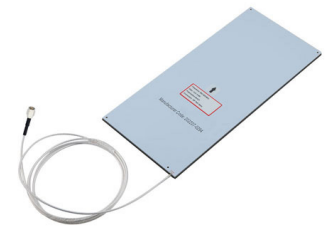
Configuration

Design	Flat Panel
Application Band	RFID
Band Type	Single
Radiation Pattern	Directional
Polarization	RHCP
Cable Type	RG316
Connector Type	SMA Male
Connector Type Specification	MIL-STD-348A
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	902		928	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		1.5		dBi
Front to Back Ratio		20		dB
Horizontal (Azimuth) Beam Width		100		Degrees
Vertical (Elevation) Beam Width		58		Degrees
Input Power			20	Watts

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, 1.5 dBi Gain SMA Male, EVA Radome, RHCP PEANFP1047](#)



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Mechanical Specifications

Radome Material

EVA

Size

Overall Length

11 in [279.4 mm]

Width

5 in [127 mm]

Height

0.19 in [4.83 mm]

Weight

0.2866 lbs [130 g]

Connectors

Description	Connector 1	Connector 2	Connector 3
Inner Conductor Material and Plating	Brass, Gold		
Inner Conductor Plating Specification	30 µin minimum		
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100 µin minimum		
Hex Size	5/16 inch		
Body Material and Plating	Brass, Nickel		
Body Plating Specification	100 µin minimum		

Environmental Specifications

Temperature

Operating Range

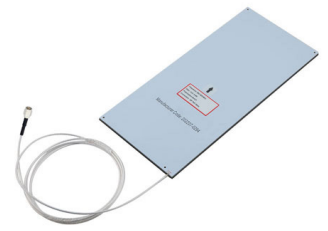
-20 to +65 deg C

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

Plotted and Other Data

Notes:

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, 1.5 dBi Gain SMA Male, EVA Radome, RHCP PEANFP1047](#)



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902 to 928 MHz, RFID Flat Panel Antenna, 1.5 dBi Gain SMA Male, EVA 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: [902 to 928 MHz, RFID Flat Panel Antenna, 1.5 dBi Gain SMA Male, EVA Radome, RHCP PEANFP1047](https://www.pasternack.com/1.5-dbi-flat-panel-antenna-902-928-mhz-sma-male-connector-peanfp1047-p.aspx)

URL: <https://www.pasternack.com/1.5-dbi-flat-panel-antenna-902-928-mhz-sma-male-connector-peanfp1047-p.aspx>

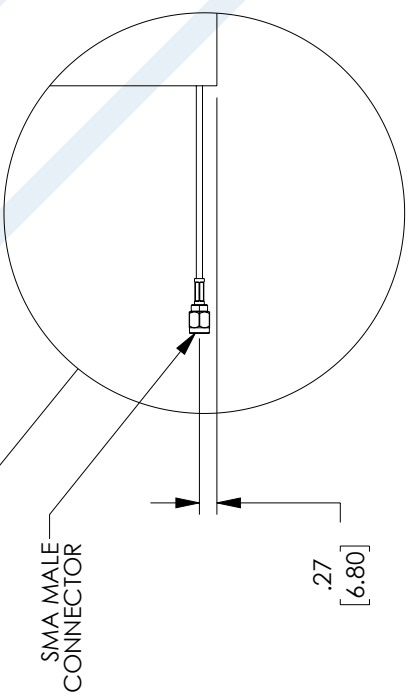
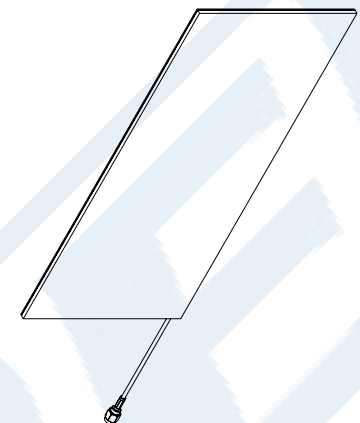
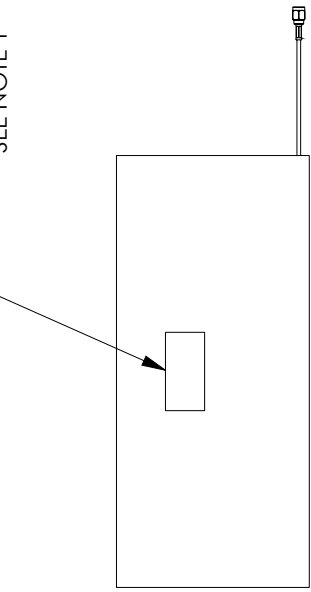
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such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

PEANFP1047 CAD Drawing

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REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	01/31/2023
		CHANGED BY	APPROVED BY
		PSRINIVAS	KHIETPAS

LABEL PER ILS-100-03
SEE NOTE 1



DETAIL A

NOTES:

1. 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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Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

RFID ANTENNA 902-928MHZ, RHCP, 3.5 dBi, Black EVA, SMA Male, 11x5 in

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE NONE

SHEET 1 OF 1

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

TOLERANCES:
X = ±.2 [5] FRACTIONS
XX = ±.02 [.5] ± 1/32
XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
>12 [305] = +1 [25] / -0
>60 [1524] ≤ 120 [3048] = +2 [51] / -0
>120 [3048] ≤ 300 [7620] = +4 [102] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE

SIZE A CAGE CODE 53919 DRAWN BY PSRINIVAS ITEM NO.

REV A

PEANFP1047