



902 to 928 MHz, RFID Flat Panel Antenna, 9 dBi
Gain SMA Male, ABS Radome, RHCP

Antennas Technical Data Sheet

PEANFP1051

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 PEANFP1051 is a RHCP RFID flat panel antenna. The PEANFP1051 with a 9 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 PEANFP1051 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 9 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 PEANFP1051 has a radome made of ABS in Off-White color and comes from a facility certified to ISO 9001:2015. This SMA Male connectized Antenna has an overall length of 5.7 in, width of 5.7 in, and weighs 1.65 lbs. Use our on-line ordering system to purchase your PEANFP1051 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	RG142
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			1.3:1	
Impedance		50		Ohms
Gain		9		dBi
Front to Back Ratio		17		dB
Horizontal (Azimuth) Beam Width		60		Degrees
Vertical (Elevation) Beam Width		55		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, 9 dBi Gain SMA Male, ABS Radome, RHCP PEANFP1051](#)



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Mechanical Specifications

Radome Material

ABS

Size

Overall Length

5.7 in [144.78 mm]

Width

5.7 in [144.78 mm]

Height

1 in [25.4 mm]

Weight

1.65 lbs [748.43 g]

Connectors

Description	Connector 1	Connector 2	Connector 3
Inner Conductor Material and Plating	Brass, Gold		
Inner Conductor Plating Specification	50 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

-40 to +60 deg C

Ingress Protection

IP67

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

Plotted and Other Data

Notes:

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902 to 928 MHz, RFID Flat Panel Antenna, 9 dBi Gain SMA Male, 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.

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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.

PEANFP1051 CAD Drawing

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