



902 to 928 MHz RFID Flat Panel Antenna, RHCP, 9 dBi, White ABS, SMA Male, IP54

Antennas Technical Data Sheet

PEANFP1054

Features

- High Performance Multi-tag read/write Capabilities
- Concealable Design
- Right Hand Circular Polarized
- 902 to 928 MHz Frequency Range
- SMA Male Connector
- IP54 Rated

Applications

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

Description

Pasternack's PEANFP1054 is a RHCP RFID flat panel antenna. The PEANFP1054 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 50 Watts, the PEANFP1054 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 PEANFP1054 has a radome made of ABS in White color and comes from a facility certified to ISO 9001:2015. This SMA Male connectized Antenna has an overall length of 10 in, width of 10 in, and weighs 1.87 lbs. Use our on-line ordering system to purchase your PEANFP1054 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 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 |
| Horizontal (Azimuth) Beam Width | | 65 | | Degrees |
| Vertical (Elevation) Beam Width | | 65 | | 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, 9 dBi, White ABS, SMA Male, IP54 PEANFP1054](#)



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Mechanical Specifications

| | |
|-----------------|---------------------|
| Radome Material | ABS |
| Size | |
| Overall Length | 10 in [254 mm] |
| Width | 10 in [254 mm] |
| Height | 1.3 in [33.02 mm] |
| Weight | 1.87 lbs [848.22 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 +55 deg C |
| Ingress Protection | IP54 |

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, RHCP, 9 dBi, White ABS, SMA Male, IP54 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.

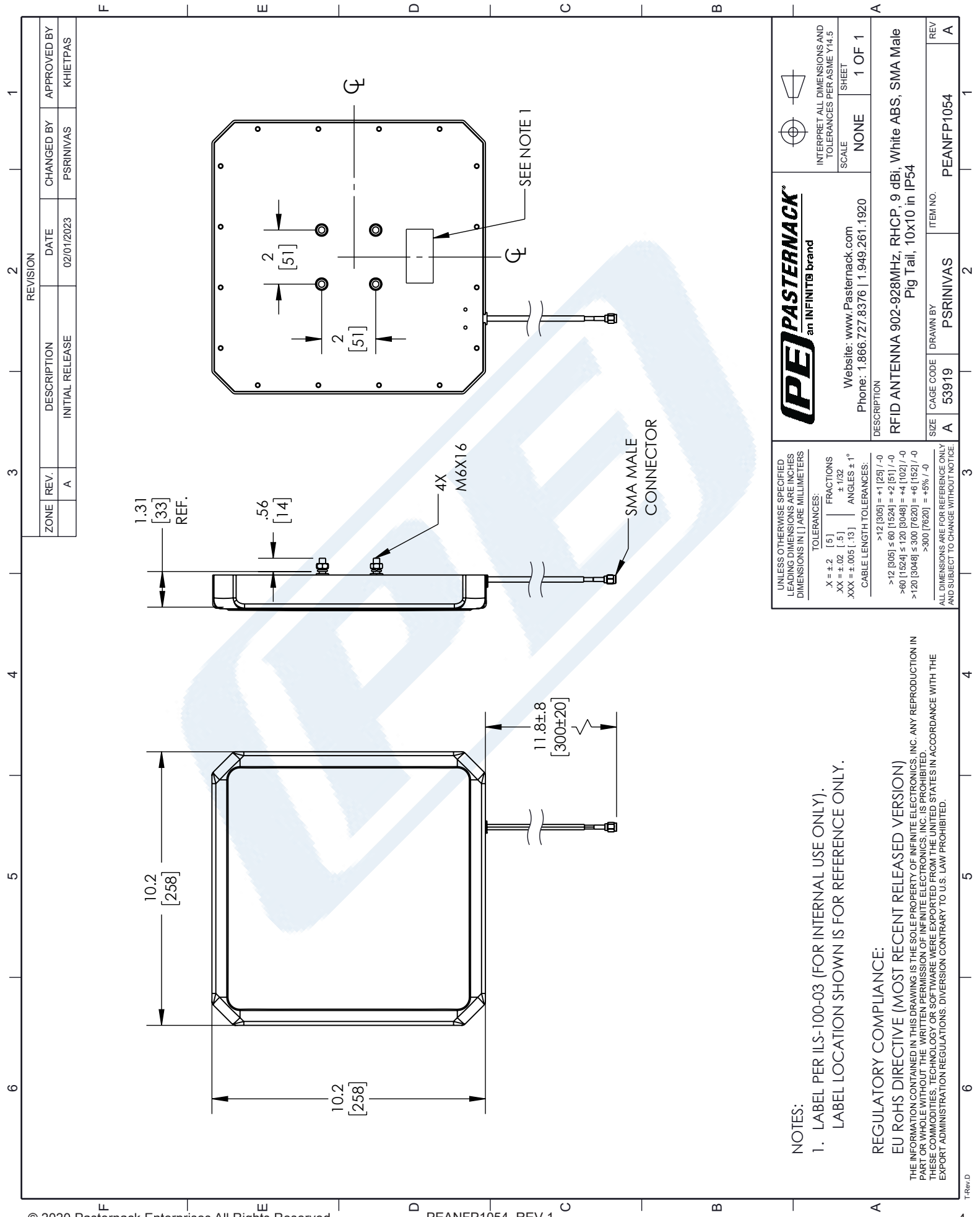
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [902 to 928 MHz RFID Flat Panel Antenna, RHCP, 9 dBi, White ABS, SMA Male, IP54 PEAN-FP1054](https://www.pasternack.com/9-dbi-flat-panel-antenna-902-928-mhz-sma-male-connector-peanfp1054-p.aspx)

URL: <https://www.pasternack.com/9-dbi-flat-panel-antenna-902-928-mhz-sma-male-connector-peanfp1054-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.

PEANFP1054 CAD Drawing

902 to 928 MHz RFID Flat Panel Antenna, RHCP, 9 dBi, White ABS, SMA Male, IP54



| ZONE | | REVISION | | CHANGED BY | | APPROVED BY | |
|------|---|-------------|------|------------|----------|-----------------|------------|
| REV. | A | DESCRIPTION | DATE | PSRINIVAS | KHIETPAS | INITIAL RELEASE | 02/01/2023 |

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

DESCRIPTION
RFID ANTENNA 902-928MHz, RHCP, 9 dBi, White ABS, SMA Male Pig Tail, 10x10 in IP54

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

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
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -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. | PEANFP1054 | REV | A |
|------|---|-----------|-------|----------|-----------|----------|------------|-----|---|

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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