



8 dBi Panel Antenna 902-928 MHz RP-SMA Connector

Antennas Technical Data Sheet

PE51FP1005-2

Features

- Vertical or Horizontal Polarization
- Light Weight
- Low Loss
- 4 ft. Coax Lead
- Durable UV Stable
- UL Flame Rated Radome

Applications

- Cellular, GSM
- Wireless LAN Systems
- 900 MHz ISM Band
- LPWAN, LoRA, IoT, M2M Applications
- SCADA, RFID

Description

The Pasternack PE51FP1005-2 high gain flat panel antenna provides 8 dBi gain with broad coverage. It is suitable for both indoor and outdoor wireless LAN and wireless video applications in the 900MHz ISM band, GSM, 900MHz cellular, RFID, LPWAN, IoT, and M2M applications.

The reverse polarity SMA male connectorized PE51FP1005-2 construction features sealed internal elements and an aesthetic UV-stable, UL flame rated white plastic radome. Can be wall or mast mounted using U-bolts.

This flat panel antenna, as well as our wide selection of superior quality RF devices, ships same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other Pasternack products.

Configuration

| | |
|-------------------|---------------------------|
| Design | Panel |
| Application Band | RFID SCADA LPWAN ISM |
| Band Type | Single |
| Radiation Pattern | Directional |
| Polarization | Vertical or Horizontal |
| Cable Type | Coax lead |
| Cable Length | 48 in [121.92 cm] |
| Connector Type | SMA Plug Reverse Polarity |
| Number of Ports | 1 |

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---------------------------------|---------|---------|---------|---------|
| Frequency Range | 902 | | 928 | MHz |
| Input VSWR | | 1.5:1 | 1.5:1 | |
| Impedance | | 50 | | Ohms |
| Gain | | 8 | | dBi |
| Horizontal (Azimuth) Beam Width | | 75 | | Degrees |
| Vertical (Elevation) Beam Width | | 65 | | Degrees |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [8 dBi Panel Antenna 902-928 MHz RP-SMA Connector PE51FP1005-2](#)



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Specifications by Band

| Description | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Units |
|-----------------------|---------|--------|--------|--------|--------|---------|
| Range | 902-928 | | | | | MHz |
| Gain | 8 | | | | | dBi |
| Horizontal Beam Width | 75 | | | | | Degrees |
| Vertical Beam Width | 65 | | | | | Degrees |

Mechanical Specifications

Radome Material ASA

Size

Overall Length 8.5 in [215.9 mm]
 Width 8.5 in [215.9 mm]
 Height 1.2 in [30.48 mm]
 Weight 1.17 lbs [530.7 g]
 Color White

Environmental Specifications

Temperature

Operating Range -20 to +60 deg C

Environment UL-94HB

Wind Loading 150 MPH [241.4 KPH]

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

Plotted and Other Data

Notes:

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8 dBi Panel Antenna 902-928 MHz RP-SMA Connector 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/single-antenna-902-928-mhz-8-dbi-gain-sma-pe51fp1005-2-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.

