



902 to 928 MHz, RFID Flat Panel Antenna, 5 dBi
Gain RP SMA Male, ABS Radome, RHCP

Antennas Technical Data Sheet

PEANFP1059

Features

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

Applications

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

Description

Pasternack's PEANFP1059 is a RHCP RFID flat panel antenna. The PEANFP1059 with a 5 dBi gain nominal is a Directional antenna. Our 902 to 928 MHz antenna has Reverse Polarity SMA Male connector.

With an impedance of 50 Ohms and max input power of 20 Watts, the PEANFP1059 flat panel RHCP antenna is well suited for Radio Frequency Identification tag reading applications. This 902-928 MHz 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 PEANFP1059 has a radome made of ABS in White color and comes from a facility certified to ISO 9001:2015. This RP SMA Male connectized Antenna has an overall length of 5.7 in, width of 5.7 in, and weighs 0.66 lbs. Use our on-line ordering system to purchase your PEANFP1059 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	RG58U
Connector Type	SMA Male Reverse Polarity
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		5		dBi
Front to Back Ratio		17		dB
Horizontal (Azimuth) Beam Width		120		Degrees
Vertical (Elevation) Beam Width		130		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, 5 dBi Gain RP SMA Male, ABS Radome, RHCP PEANFP1059](#)



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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

0.66 lbs [299.37 g]

Connectors

Description	Connector 1	Connector 2	Connector 3
Inner Conductor Material and Plating	Beryllium Copper, Gold		
Inner Conductor Plating Specification	QQ-C-530		
Coupling Nut Plating Specification	QQ-B-626		
Body Material and Plating	Brass, Nickel		
Body Plating Specification	QQ-B-626		

Environmental Specifications

Temperature

Operating Range

-20 to +65 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, 5 dBi Gain RP 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.

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, 5 dBi Gain RP SMA Male, ABS Radome, RHCP PEANFP1059](https://www.pasternack.com/5-dbi-flat-panel-antenna-902-928-mhz-reverse-polarity-sma-male-connector-peanfp1059-p.aspx)

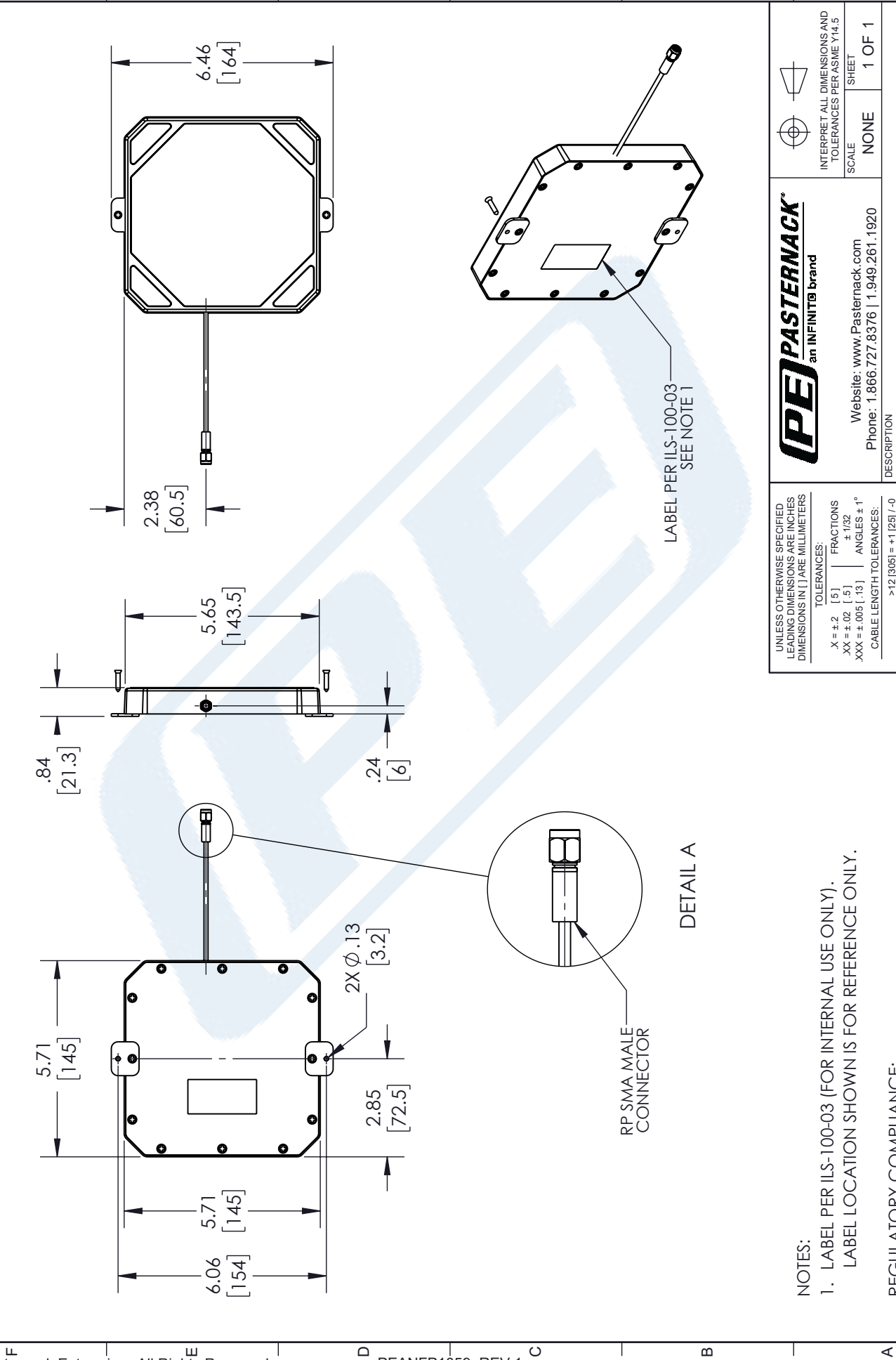
URL: <https://www.pasternack.com/5-dbi-flat-panel-antenna-902-928-mhz-reverse-polarity-sma-male-connector-peanfp1059-p.aspx>

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.

PEANFP1059 CAD Drawing

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F E D C B A



F E D C B A

PASTERNAK[®] an INFINITI[®] brand						
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5						
SCALE			SHEET			
NONE			1 OF 1			
DESCRIPTION						
RFID ANTENNA 902-928MHZ, RHCP, 5 dBi, White ABS, RP SMA Male, 5.7x5.7 in IP67 RG58U						
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920						
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV		
A	53919	PSRINIVAS	PEANFP1059	A		
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 ±°				
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.						

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE IN 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]	±.05 [1.27]
>60 [1524]	≤.120 [3048]	±.10 [2.54]
>120 [3048]	≤.300 [7620]	±.15 [3.81]
>300 [7620]	±.5%	-0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
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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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