



900 MHz 8 dBi RH Circular Polarized Patch Antenna

Antennas Technical Data Sheet

PE51FP1008

Features

- Right Hand Circular Polarized
- 12 in coax lead with N-Female Connector
- Compact size, low profile
- Lightweight ABS Radome

Applications

- RFID, GSM , Scada
- 800 MHza, 900 MHz ISM Band Applications
- Wireless Video Links
- 900 MHz Cellular
- LPWAN, LoRA, IoT, M2M applications

Description

The Hyperlink model PE51FP1008 series are high performance right hand circular polarized wall mount panel antennas designed to operate in the 900 MHz (860-960 MHz) band. These antennas feature circular polarization which makes them ideal for RFID applications. Compact and low profile, the PE51FP1008 antennas feature 8dBi of gain with a 65° beam width. Left-Hand versions are also available, the PE51FP1007 series.

Configuration

Design	Panel
Band Type	Single
Radiation Pattern	Directional
Polarization	RHCP
Cable Type	Coax Cable
Cable Length	12 in [304.8 mm]
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		8		dBi
Input Power			25	Watts

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	65					Degees
Vertical Beam Width	65					Degees
Maximum Input Power	25					Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [900 MHz 8 dBi RH Circular Polarized Patch Antenna PE51FP1008](#)



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Mechanical Specifications

Radome Material

ASA

Size

Overall Length

8.5 in [215.9 mm]

Width

8.5 in [215.9 mm]

Height

1.1 in [27.94 mm]

Weight

1.17 lbs [530.7 g]

Environmental Specifications

Temperature

Operating Range

-20 to +60 deg C

Environment

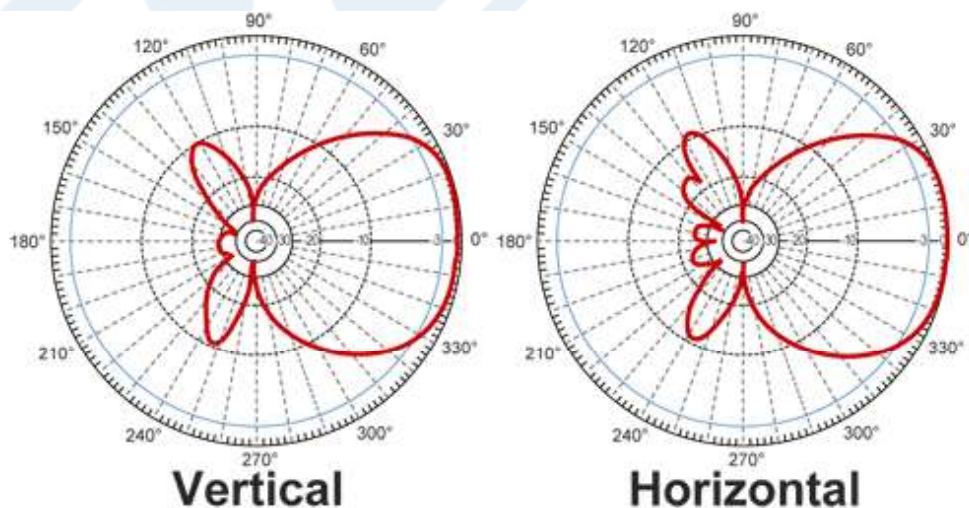
UL-94HB

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

Plotted and Other Data

Notes:

Antenna RF Patterns



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900 MHz 8 dBi RH Circular Polarized Patch Antenna 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.

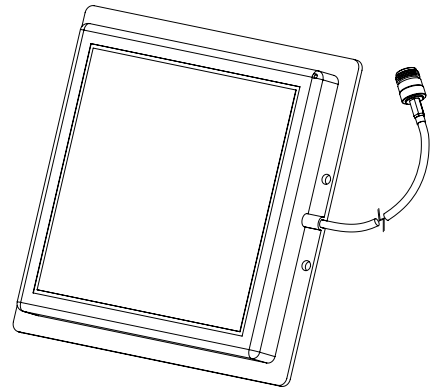
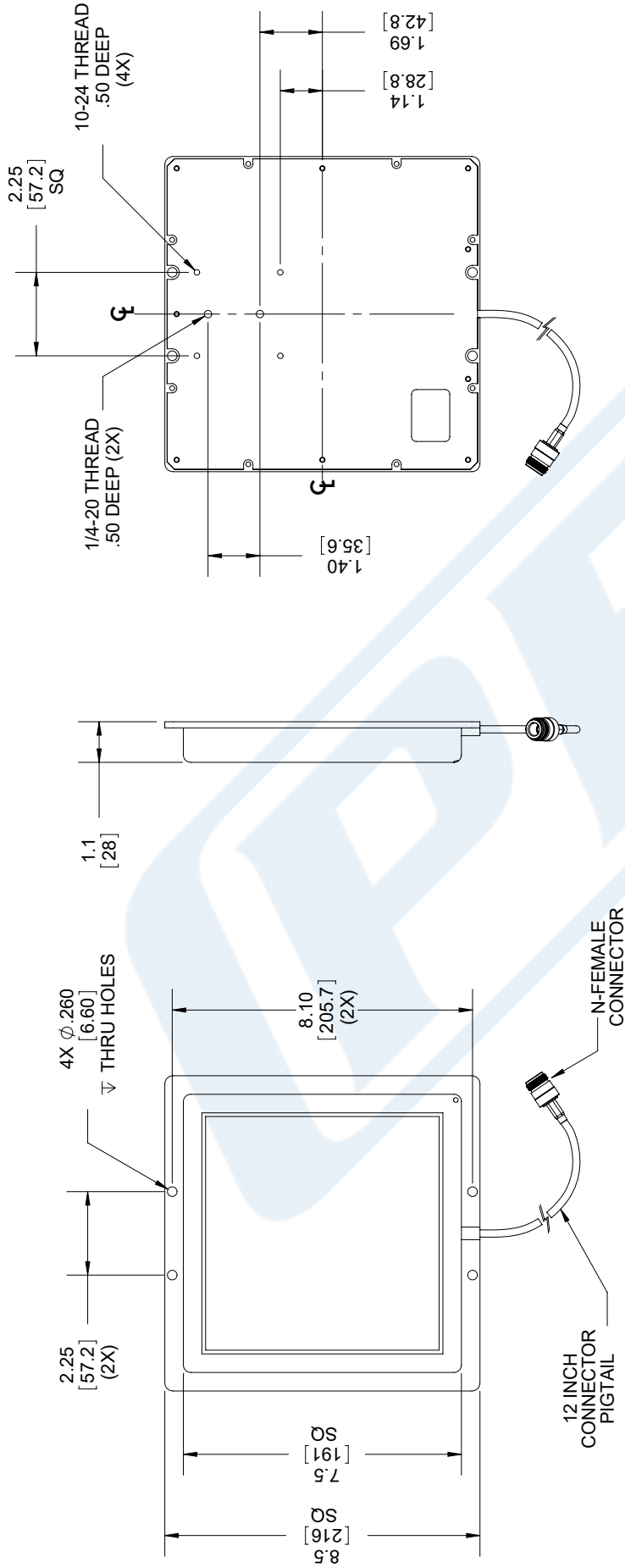
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [900 MHz 8 dBi RH Circular Polarized Patch Antenna PE51FP1008](https://www.pasternack.com/single-antenna-8-dbi-gain-n-pe51fp1008-p.aspx)

URL: <https://www.pasternack.com/single-antenna-8-dbi-gain-n-pe51fp1008-p.aspx>

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PE51FP1008 CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/12/2020	M.MILLER



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LEADING DIMENSIONS ARE INCHES
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TOLERANCES:

.X = ±.2	[.08]	FRACTIONS
.XX = ±.02	[.51]	± 1/32
.XXX = ±.005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

$$\begin{aligned} L \leq 12 [305] &= +1 [25] / -0 \\ 12 [305] < L \leq 60 [1524] &= +2 [51] / -0 \end{aligned}$$
$$300 [1524] < L \leq 120 [3048] = +4 [102] / -0$$

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SCALE

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