



## 30 dB Magnet Mount GPS/GLNSS Antenna 1,575-1,615 MHz SMA Connector

### Antennas Technical Data Sheet

PE51GPS1004

#### Features

- Low-profile, rugged, compact design
- High-impact Polycarbonate housing
- UV Stabilized
- IP67 Rated
- High Rejection SAW Filter
- Low current consumption

#### Applications

- Service vehicles
- Public safety
- Public transportation
- Mining & Construction

#### Description

This magnet mount GPS/GLNSS antenna is ideally suited for multipoint mobile and fixed applications including service vehicles, public transportation, public safety, mining and construction vehicles, kiosks, as well numerous other commercial and industrial applications where a compact and rugged GPS/GLNSS antenna is required.

#### Configuration

Design	GPS/GLNSS
Band Type	Single
Cable Type	RG174/U
Cable Length	196.8 in [499.87 cm]
Connector Type	SMA Plug

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,575		1,615	GHz
Output VSWR			2:1	
Impedance		50		Ohms
Gain		30		dB
Noise Figure		2		dB
Out Of Band Rejection			37	dB
Operating DC Voltage	3		5	Volts
Current	8		16	mA

#### Passive Element Specifications

Description	Minimum	Typical	Maximum	Units
Antenna Gain at Zenith(GLNSS)		4.1		dBic
Antenna Gain at Zenith(GPS)		3.6		dBic
Antenna VSWR			2	
Polarization		RHCP		

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Magnet Mount GPS/GLNSS Antenna 1,575-1,615 MHz SMA Connector PE51GPS1004](#)



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**Mechanical Specifications**

Mounting Application

Magnet Mount

**Size**

Overall Length  
Width  
Height  
Color

1.9 in [48.26 mm]  
1.8 in [45.72 mm]  
0.78 in [19.81 mm]  
Black

**Environmental Specifications**

**Temperature**

Operating Range  
Humidity  
ESD Protection

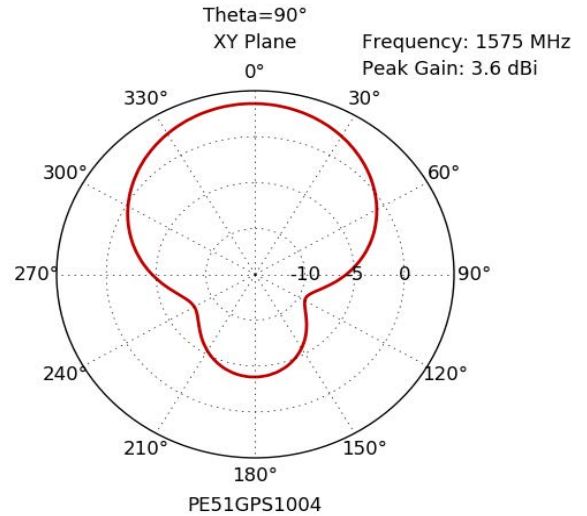
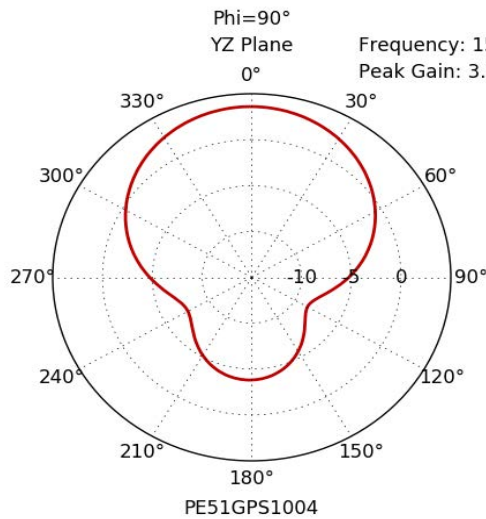
-40 to +90 deg C  
65 ±20% RH  
IP67

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

**Plotted and Other Data**

Notes:

**Typical Radiation Pattern**



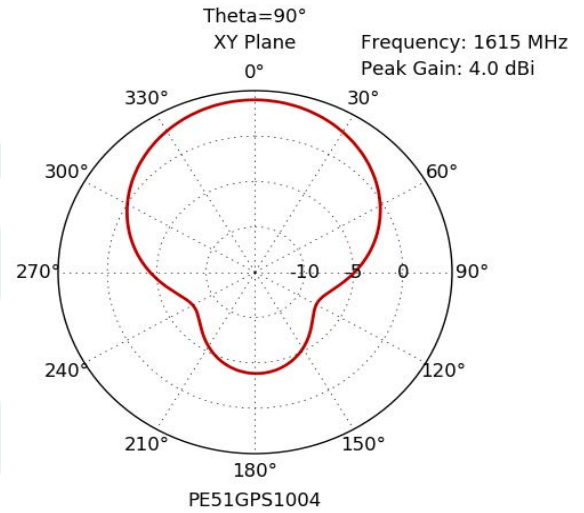
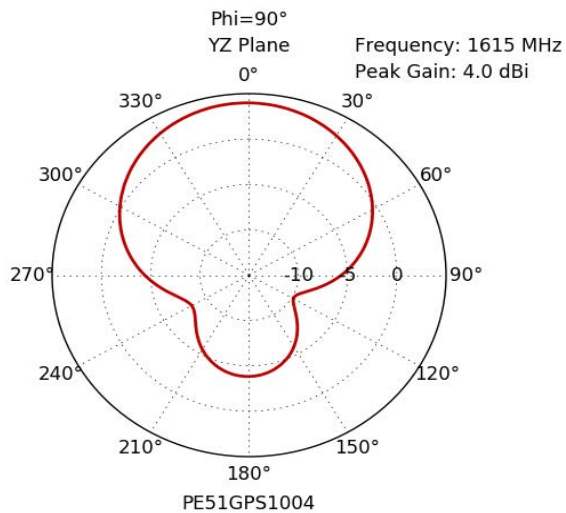
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30 dB Magnet Mount GPS/GLNSS Antenna 1,575-1,615 MHz SMA Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [30 dB Magnet Mount GPS/GLNSS Antenna 1,575-1,615 MHz SMA Connector PE51GPS1004](https://www.pasternack.com/single-antenna-1.575-1.615-ghz-30-db-gain-sma-pe51gps1004-p.aspx)

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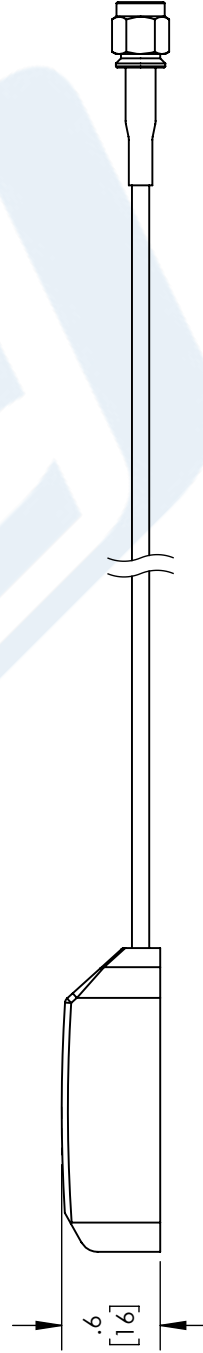
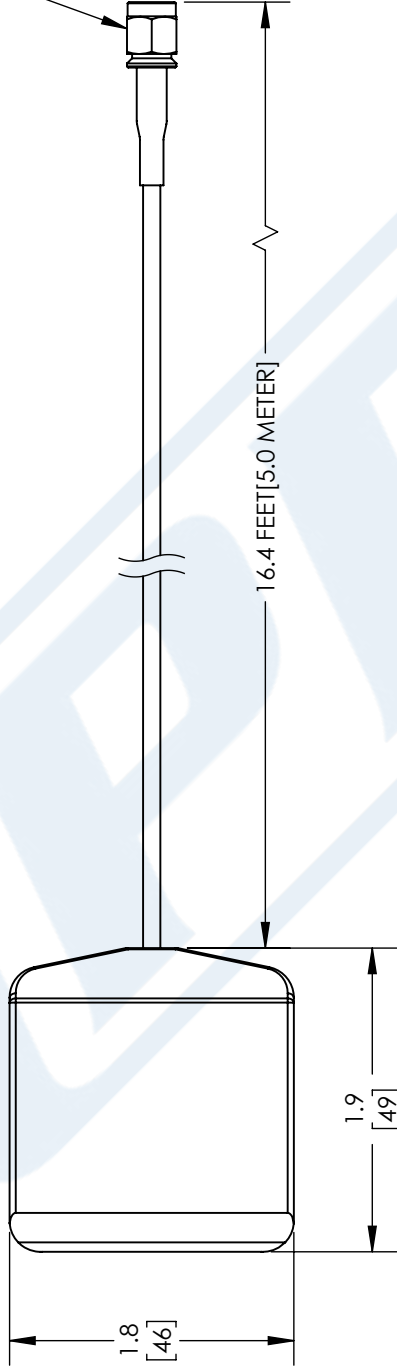
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# PE51GPS1004 CAD Drawing

30 dB Magnet Mount GPS/GLNSS Antenna 1,575-1,615 MHz SMA Connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/16/2019	MMILLER

SMA MALE  
CONNECTOR



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	+1/32
XX±.01 [.25]	
XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

**(PE) PASTERNAK**  
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SIZE: A CAGE: 53919 DRAWN BY: BPUCHASKI PART NUMBER: PE51GPS1004

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SHEET 1	OF 1
SCALE	N/A
REV	A

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