



GPS Passive Antenna, 1597 MHz to 1607 MHz,
-3dBic, Linear Polarization Small SMA mount

Antennas Technical Data Sheet

PEANGPS1008

Features

- Low Profile
- MIL-STD-810G
- Linearly Polarized
- SMA Male
- IP67 Rated
- Operating Frequency Range 1559 MHz to 1610 MHz

Applications

- Military, Law Enforcement, or Private Security
- Hand-held/Portable Devices
- Asset and Fleet Tracking
- Scientific Instrumentation
- Oil, Gas, and Mining Industries
- M2M Applications
- GPS L1, GALLILEO E1, AND GLONASS

Description

Pasternack's Active GNSS Antenna PEANGPS1008 is Linearly polarized and conforms to MIL-STD-810G. The PEANGPS1008 is an active GPS L1 band antenna with -3 dBic Gain. These Mil Spec active GNSS antenna units are ideally suited for use in rugged terrain where low profile, low drag, bullet style antennas are needed.

Our GNSS antenna specialists are ready and available to answer any questions you may have on the PEANGPS1008. This high quality multi-standard SMA male antenna meets GPS L1, GALLILEO E1 and GLONASS G1 requirements by operating in the 1559MHz to 1610MHz frequency range.

The PEANGPS1008 GNSS antenna series from Pasternack are designed for portable, hand-held, or mobile devices which receive GNSS signals from satellite constellations to triangulate geolocations for navigation, tracking, surveying, mobile network timing, or munitions targeting. Order your Passive GNSS PEANGPS1008 Antenna from Pasternack today. There is no MOQ (minimum order quantity) and the product ships same day from our warehouse.

Configuration

Design	GPS/GNSS
Band Type	Single
Polarization	Linear, Vertical
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,597		1,607	MHZ
Output VSWR			2.5:1	
Impedance		50		Ohms
Gain	-3			dBic

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization Small SMA mount PEANGPS1008](#)



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Mechanical Specifications

Radome Material	Polyetherimide
Size	
Overall Length	1.35 in [34.29 mm]
Width	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.05 lbs [22.68 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +71 deg C
Storage Range	-40 to +85 deg C
Environment	MIL-STD-810G
Humidity	MIL-STD-810G, Meth 507.5, Proc. II, 95% Relative Humidity
Shock	MIL-STD-810G
Vibration	MIL-STD-810G
Altitude	MIL-STD-810G
Corrosion	MIL-STD-810G, Meth 509.5, 4 x 24 h

Environmental Specification Notes:

- Operating Temp MIL-STD-810G, Meth. 501.5 & 502.5, Proc.II. Storage Temp MIL-STD-810G, Meth. 501.5 & 502.5, Proc. I.

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

Plotted and Other Data

Notes:

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ELECTRICAL PERFORMANCES

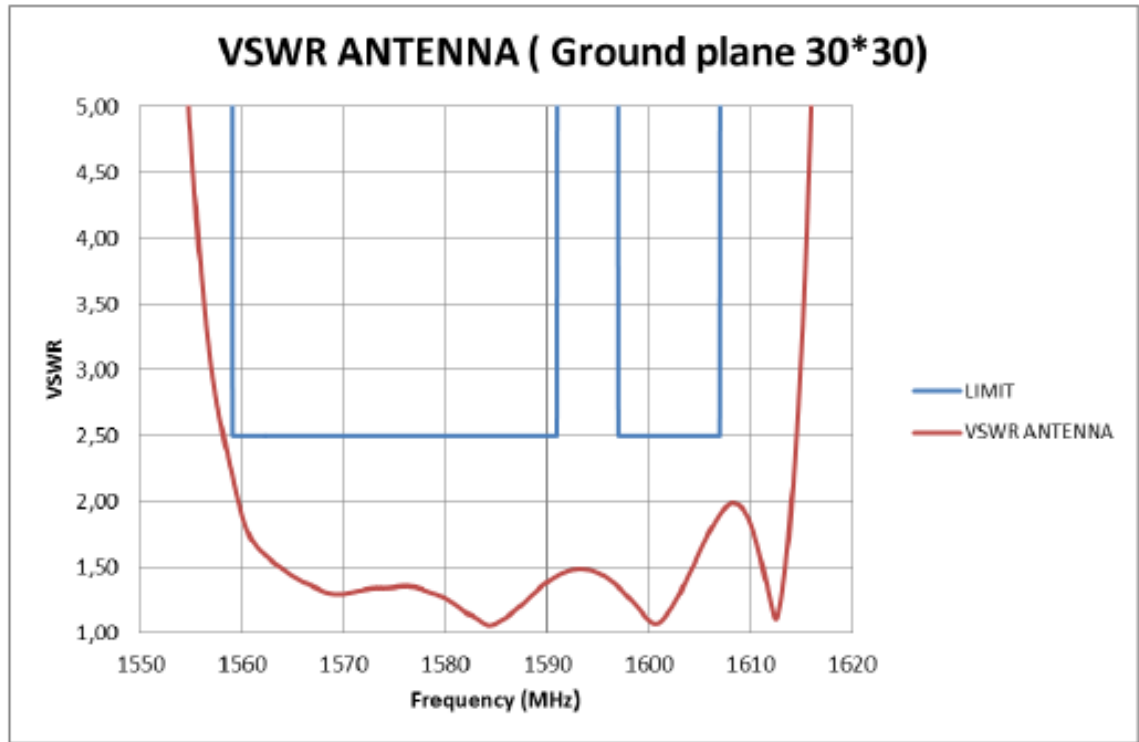


Figure 1: VSWR

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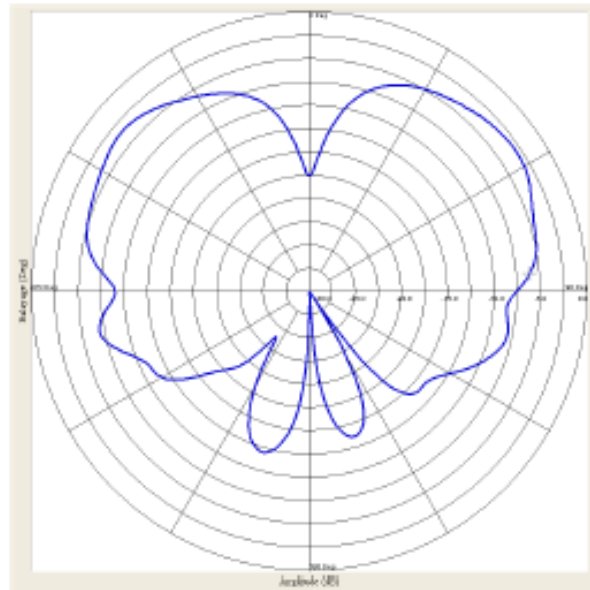


Figure 2: Radiation pattern on ground plane at 1575 MHz (RHCP)

GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization Small SMA mount 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: [GPS Passive Antenna, 1597 MHz to 1607 MHz, -3dBic, Linear Polarization Small SMA mount PEANGPS1008](https://www.pasternack.com/-3-dbic-gps-gnss-antenna-1597-1607-mhz-sma-male-connector-peangps1008-p.aspx)

URL: <https://www.pasternack.com/-3-dbic-gps-gnss-antenna-1597-1607-mhz-sma-male-connector-peangps1008-p.aspx>

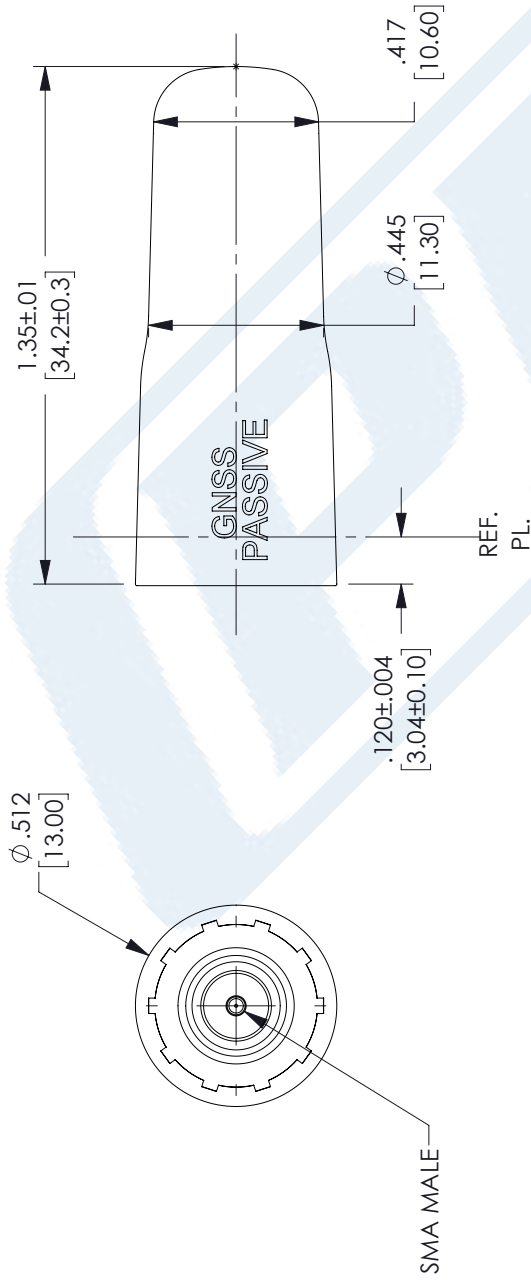
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PEANGPS1008 CAD Drawing

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REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/21/2022	KHIETPAS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ±1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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an INFINIT® brand

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ITEM NO. PEANGPS1008
CAGE CODE 53919
DRAWN BY KGLEBOVA
SCALE N/A
SHEET 1 OF 1

THIRD-ANGLE PROJECTION

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