



GPS Active Antenna, 1597 MHz to 1607 MHz,
10dBic, Linear Polarization SMA mount

Antennas Technical Data Sheet

PEANGPS1007

Features

- Low Profile
- Embedded Low Noise Amplifier
- MIL-STD-810G
- Linearly Polarized
- 10 dBic Gain
- SMA Male
- IP67 Rated
- Operating Frequency Range 1559 MHz to 1610 MHz
- Operating Voltage 3.3 Vdc

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 PEANGPS1007 is Linearly polarized and conforms to MIL-STD-810G. The PEANGPS1007 is an active GPS L1 band antenna with 10 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 PEANGPS1007. 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 PEANGPS1007 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 Active GNSS PEANGPS1007 Antenna from Pasternack today. There is no MOQ (minimum order quantity) and the product ships same day from our warehouse.

Configuration

Design	GPS/GNSS Active
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	10			dBic
Noise Figure		0.55		dB
Operating DC Voltage	2		3.5	Volts
Current		3.8		mA

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [GPS Active Antenna, 1597 MHz to 1607 MHz, 10dBic, Linear Polarization SMA mount PEANGPS1007](#)



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Mechanical Specifications

Radome Material	Polyetherimide
Size	
Overall Length	1.75 in [44.45 mm]
Width	0.6 in [15.24 mm]
Height	0.6 in [15.24 mm]
Weight	0.02 lbs [9.07 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
Shock	MIL-STD-810G, Meth. 516.6, Proc. I
Vibration	MIL-STD-810G, Meth. 514.6, Proc. I
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. Transit Drops MIL-STD-810G, Meth. 516.6, Proc. IV, 26 drops 1.2m.

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

Plotted and Other Data

Notes:

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ELECTRICAL PERFORMANCES

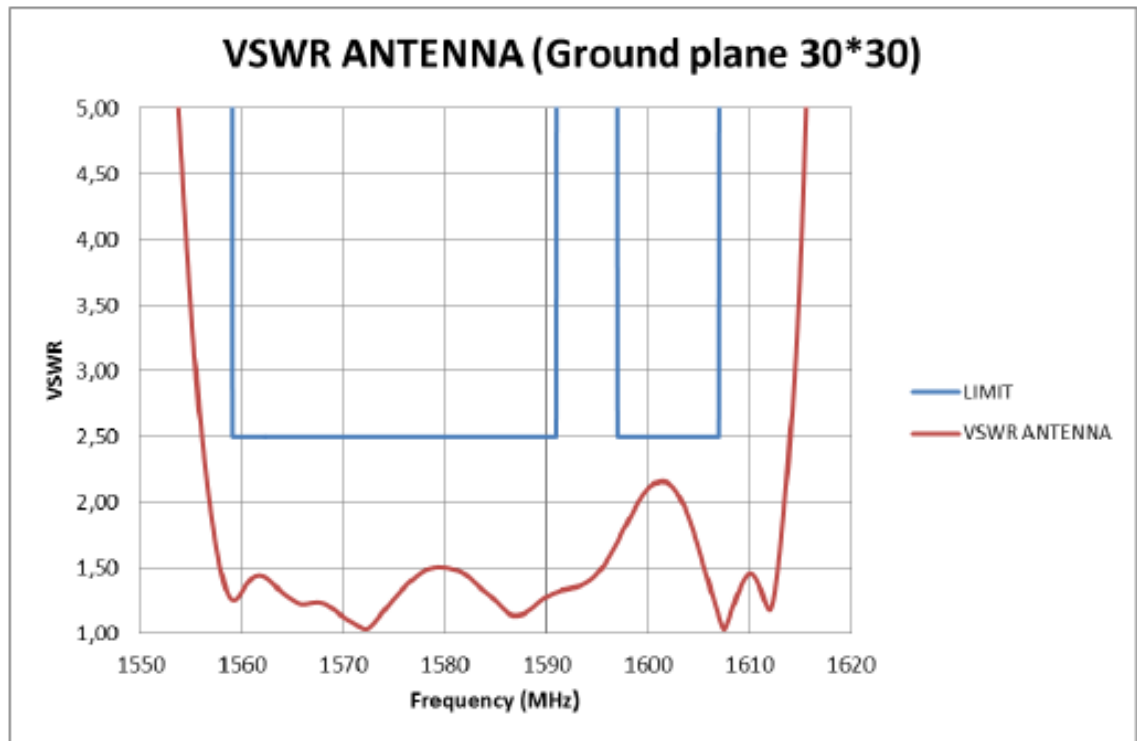


Figure 1: VSWR

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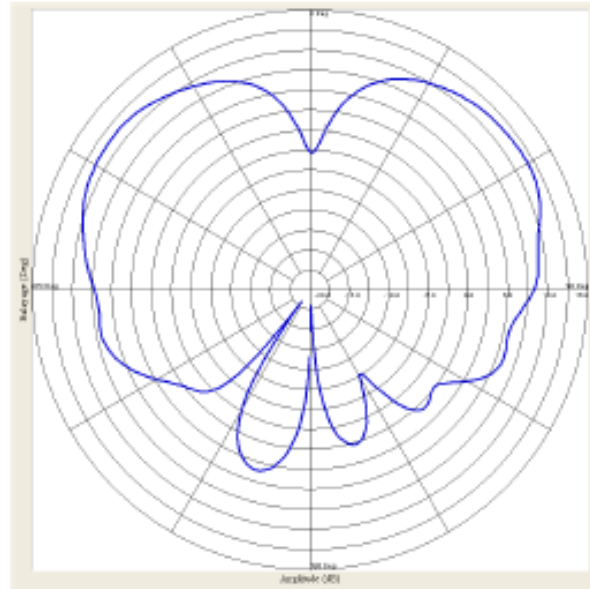


Figure 2: Radiation pattern on ground plane at 1575 MHz (RHCP)

GPS Active Antenna, 1597 MHz to 1607 MHz, 10dBic, Linear Polarization 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 Active Antenna, 1597 MHz to 1607 MHz, 10dBic, Linear Polarization SMA mount PEANGPS1007](https://www.pasternack.com/10-dbic-gps-gnss-active-antenna-1597-1607-mhz-sma-male-connector-peangps1007-p.aspx)

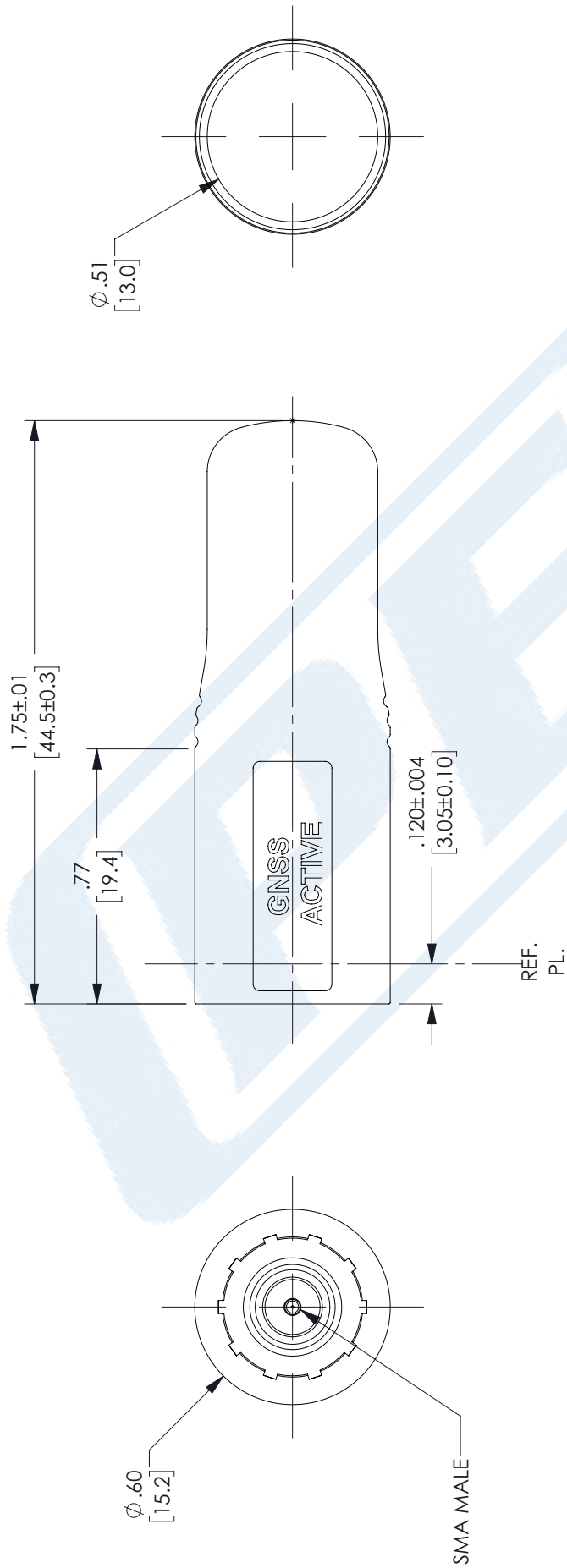
URL: <https://www.pasternack.com/10-dbic-gps-gnss-active-antenna-1597-1607-mhz-sma-male-connector-peangps1007-p.aspx>

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PEANGPS1007 CAD Drawing

GPS Active Antenna, 1597 MHz to 1607 MHz, 10dBic, Linear Polarization SMA mount

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	07/21/2022	KHIETPAS



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

TOLERANCES:

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

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 INFINITI® brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PEANGPS1007

REV A

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