

# Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67



### **Antennas Technical Data Sheet**

#### PEANGPS1000

#### **Features**

- Dual Band
- · IP67 Rated
- 1.217- 1.257GHz and 1.565-1.610GHz

### **Applications**

- GPS L1/L2
- · GLONASS L1/L2
- · Galileo E1
- QZSS L1/L2

- · Stable Phase Center
- · Millimeter Level Accuracy
- SMA Male
- SBAS L1
- · Unmanned Vehicles/Vessels
- GIS Surveying
- · Autonomous Vehicles

#### **Description**

The PEANGPS1000 is an active GPS/GNSS dual band L1/L2 antenna with 37dBi overall gain. This high precision antenna is IP67 rated, light weight and designed for Unmanned Arial Vehicles (UAV). The active UAV GPS/GNSS antenna is ideally suited for use in harsh operating environments where stability and reliability of GPS/GNSS signal is required.

This antenna operates in the 1.217- 1.257GHz and 1.565-1.610GHz bands meeting GPS L1/L2, GALILEO E1 and GLONASS L1/L2 requirements. The PEANGPS1000 antenna has an integrated LNA with 1.5 dB noise figure and typical LNA gain of 33 dB.

The PEANGPS1000 GPS antenna from Pasternack, with an axial ratio of 3 dB, can track visible satellites under extreme conditions, providing positioning solutions with accuracy for UAV navigation, autonomous tracking, or GIS surveying.

#### Configuration

Design GPS/GNSS
Band Type Dual
Polarization RHCP
Connector Type SMA Male

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,217		1,610	MHz
Output VSWR			2:1	
Impedance		50		Ohms
Gain		37		dBi
Noise Figure		1.5		dB
Operating DC Voltage	3.3		12	Volts
Current			55	mA
Axial Ratio		3		dB

#### Specifications by Band

Desc	cription	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range		1.217 to 1.257	1.565 to 1.61				GHz

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67 PEANGPS1000

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Gain	37	37.5	dBi

#### **Mechanical Specifications**

Size

 Overall Length
 2.322 in [58.98 mm]

 Width
 1.08 in [27.43 mm]

 Height
 1.08 in [27.43 mm]

 Weight
 0.05 lbs [22.68 g]

#### **Environmental Specifications**

**Temperature** 

Operating Range -40 to +70 deg C Storage Range -40 to +70 deg C Humidity 95%

ESD Protection 67

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67 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.

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URL: https://www.pasternack.com/37-dbi-band-gps-active-antenna-1217-1610-mhz-sma-male-connector-peangps1000-p. aspx

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**PEANGPS1000 CAD Drawing**Dual Band 37dBi GPS/GNSS UAV Antenna 1,217-1,610 MHz SMA Male Connector IP67

