

# Multi Band 41dBi GPS/GNSS Aviation Antenna 1,164-1,615 MHz TNC Female Connector IP67



# **Antennas Technical Data Sheet**

### PEANGPS1002

#### **Features**

- Multi Band
- · IP67 Rated
- 1.164-1.3GHz and 1.525-1.615GHz
- **Applications** 
  - GPS L1/L2/L5
  - GLONASS L1/L2/L3
  - Galileo E1/E5a/E5b/E6
  - BDS B1/B2/B3
  - QZSS L1/L2/L5/L6

- · Stable Phase Center
- · Millimeter Level Accuracy
- TNC Female
- SBAS L1/L5
- IRNSS L5
- · Unmanned Vehicles/Vessels
- · GIS Surveying
- Autonomous Vehicles

#### **Description**

The PEANGPS1002 is an active GPS/GNSS multi band L1/L2/L5 antenna with 41dBi overall gain. This high precision antenna is IP67 rated, light weight and designed for Aviation. The active Aviation 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 1.164-1.3GHz and 1.525-1.615GHz bands meeting GPS L1/L2/L5, GALILEO E1/E5a/E5b/ E6 and GLONASS L1/L2/L3 requirements. The PEANGPS1002 antenna has an integrated LNA with 2 dB noise figure and typical LNA gain of 36 dB.

The PEANGPS1002 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

DesignGPS/GNSSBand TypeMultiPolarizationRHCPConnector TypeTNC Female

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
1,164		1,615	MHz
		2:1	
	50		Ohms
	41		dBi
	2		dB
3.3		12	Volts
		45	mA
	3		dB
	1,164	1,164 50 41 2 3.3	1,164  1,615  2:1  50  41  2  3.3  12  45

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Multi Band 41dBi GPS/GNSS Aviation Antenna 1,164-1,615 MHz TNC Female Connector IP67 PEANGPS1002

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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### Specifications by Band

Description	n Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.164 to 1.3	1.525 to 1.615				GHz
Gain	41	42		, ili		dBi

-40 to +85 deg C

#### **Mechanical Specifications**

Mounting Application 4	M4 screws installation
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S	i	7	e

Overall Length	2.57 in [65.28 mm]
Width	2.57 in [65.28 mm]
Height	1.65 in [41.91 mm]
Weight	0.4 lbs [181.44 g]

### **Environmental Specifications**

Temperature			
Operating Range			
Storage Range			

Storage Range	-55 to +85 deg C
Humidity	95%
Ingress Protection	67

Compliance Certifications (see product page for current document)

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

Notes:

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Multi Band 41dBi GPS/GNSS Aviation Antenna 1,164-1,615 MHz TNC Female 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/41-dbi-band-gps-active-antenna-1164-1615-mhz-tnc-female-connector-peangps1002-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.

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# **PEANGPS1002 CAD Drawing**

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