



Multi Band 47dBi GPS/GNSS Survey Antenna 1,164-1,615 MHz TNC Female Connector IP69K

Antennas Technical Data Sheet

PEANGPS1005

Features

- Multi Band
- 1.164-1.3GHz and 1.525-1.615GHz
- IP69K Rated

Applications

- GPS L1/L2/L5
- GLONASS L1/L2/L3
- Galileo E1/E5a/E5b/E6
- BDS B1/B2/B3
- QZSS L1/L2/L5/L6
- SBAS L1/L5

- · Stable Phase Center
- · Millimeter Level Accuracy
- TNC Female
- IRNSS L5
- L Band Correction Services
- Unmanned Vehicles/Vessels
- GIS Surveying
- · Autonomous Vehicles

Description

The PEANGPS1005 is an active GPS/GNSS multi band L1/L2/L5 antenna with 47.5 dBi overall gain. This high precision ruggedized antenna is IP69K rated, light weight and designed for Survey. The active Survey 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/E6/E5a/E5b and GLONASS L1/L2/L3 requirements. The PEANGPS1005 antenna has an integrated LNA with 2 dB noise figure and typical LNA gain of 40 dB.

The PEANGPS1005 GPS/GNSS 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 Active

Band TypeMultiPolarizationRHCPConnector TypeTNC Female

Electrical Specifications

Minimum	Typical	Maximum	Units
1,164		1,615	MHz
		2:1	
	50		Ohms
	47.5		dBi
	±4		dBi
	2		dB
3.3		18	Volts
		45	mA
	3		dB
	1,164	1,164 50 47.5 ±4 2 3.3	1,164 1,615 2:1 50 47.5 ±4 2 3.3 18 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 47dBi GPS/GNSS Survey Antenna 1,164-1,615 MHz TNC Female Connector IP69K PEANGPS1005

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	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.164 to 1.3	1.525 to 1.615				GHz
Gain	47.5	47.5				dBi

Mechanical Specifications

Mounting Application Coarse threaded 5/8"-11, thread hole depth 10-11mm

Size

 Overall Length
 5.9 in [149.86 mm]

 Width
 5.9 in [149.86 mm]

 Height
 2.08 in [52.83 mm]

 Weight
 1.85 lbs [839.15 g]

Environmental Specifications

Temperature

Operating Range -45 to +85 deg C Storage Range -55 to +85 deg C

Humidity 95%

Shock 75Gs, 6ms duration, 3 shocks in mutually perpendicular

axes

Vibration 9.8gRMS, 24 2000Hz

Corrosion 96h (continuous spray, 5% concentration, 35°C)

Ingress Protection IP67/IP69K

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Multi Band 47dBi GPS/GNSS Survey Antenna 1,164-1,615 MHz TNC Female Connector IP69K 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/47.5-dbi-band-gps-active-antenna-1164-1615-mhz-tnc-female-connector-peangps1005-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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PEANGPS1005 CAD Drawing

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