



Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant

Antennas Technical Data Sheet

PEANGPS1017

Features

- Dual Band L1/L2
- MIL-STD-810
- N-type Female
- US 4 hole or NATO 3/6 hole pattern
- 20 dBi Gain, 3 dB Noise Figure
- Rugged, low-profile construction
- High 30 dB Out of Band Rejection
- TAA Compliant

Applications

- GPS L1/L2
- Military Vehicles
- Unmanned Vehicles/Vessels
- Autonomous Vehicles
- Rugged, Harsh, Hostile Environments

Description

The PEANGPS1017 is an active GPS dual band L1/L2 antenna, from Pasternack, with N-Type Female connector is specifically designed for military and unmanned vehicle applications. This high precision antenna conforms to MIL-STD-810 for humidity, shock, vibration, blowing rain, water immersion and has an altitude rating of 20 Km. The Mil Spec active GPS antenna is ideally suited for use in harsh active operating environments where stability and reliability of GPS signal is required.

Our GPS antenna specialists are ready and available to answer any questions you may have on the PEANGPS1017. This antenna operates in the 1.215 - 1.239GHz and 1.563-1.587 GHz bands meeting GPS L1/L2 requirements. The PEANGPS1017 antenna has an integrated LNA with 3 dB noise figure and gain of 20 dBi. It is mounted using standard US 4 hole or NATO 3/6 hole pattern. Pasternack's active GPS Antenna PEANGPS1017 is in stock and ready to ship.

Configuration

Design	GPS Active
Application Band	L1/L2
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	RHCP
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,215.6		1,587.42	MHz
Impedance		50		Ohms
Out Of Band Rejection		30		dB
Operating DC Voltage	1.8		5.5	Volts
Current		16		mA

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant PEANGPS1017](#)



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.216 to 1.239	1.563 to 1.587				GHz
Center Frequency	1.2276	1.5754				GHz
Gain	20	21				dBi

Mechanical Specifications

Mounting Application 4-hole US and 3/6-hole NATO pattern mount

Size

Overall Length 5.5 in [139.7 mm]
Width 5.5 in [139.7 mm]
Height 2.56 in [65.02 mm]
Weight 1.3 lbs [589.67 g]

Environmental Specifications

Temperature

Operating Range -40 to +71 deg C
Storage Range -40 to +85 deg C

Humidity MIL-STD-810E, Method 507.3 Procedure III
Shock MIL-STD-810F, Method 516.5 Procedure I
Vibration MIL-STD-810F, Method 514.5 Category 24
Altitude 20,000 meters

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

Plotted and Other Data

Notes:

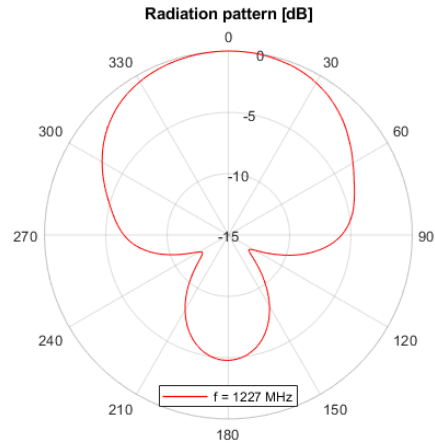
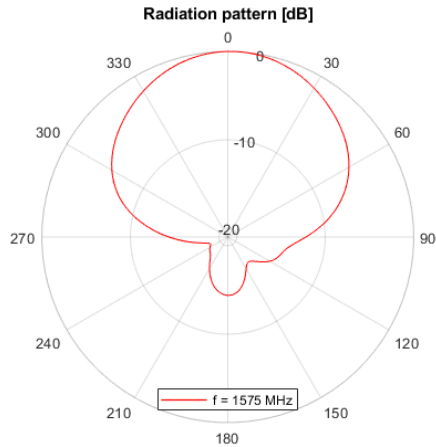
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Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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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.

PEANGPS1017 CAD Drawing

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