Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression



PEANGPS1020-SM-060

Features

- Anti-jam GNSS antenna
- Single-band GNSS coverage
- Multi-constellation support
- Built for RF-congested areas
- UAV navigation antenna
- Rugged active antenna
- 60-inch cable
- 40 dB LNA Gain

Applications

- Defense UAVs
- Public safety drones
- Industrial drone inspection
- Security UAS
- Autonomous robotics
- Fleet tracking
- Marine navigation systems

Description

The PEANGPS1020-SM-060 from Pasternack is a GPS antenna. Our RHCP polarized L1 GNSS antenna has a maximum input VSWR of 1.8:1. Our GPS patch antenna is designed to operate within a DC voltage range of 2.5 to 16 Volts. This anti-jam antenna provides low-angle interference suppression.

Pasternack's PEANGPS1020-SM-060 GNSS antenna can operate at frequencies ranging from 1.55 to 1.6 GHz. Our antenna can withstand temperatures ranging from -40 to 85 deg C. This GPS antenna has a 60-inch long pigtail with an SMA male connector. Our RHCP polarized antenna is designed with a through-hole mount type for secure installation.

This RHCP polarized antenna has an overall length of 3.94 inches, a width of 3.94 inches, and a weight of 0.33 lbs. Our PEANGPS1020-SM-060 L1 GNSS antenna has a nominal gain of 40 dB.

Configuration

Design	GPS/GNSS Active
Application Band	L1
Polarization	RHCP
Cable Length	60 in [152.4 cm]
Connector Type	SMA Male

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,559		1,606	MHz
Input VSWR		1.5:1	1.8:1	
Gain		46.3		dBic
Noise Figure		3		dB
Operating DC Voltage	2.5		16	Volts
Current		20		mA
Axial Ratio		2		dB

Electrical Specification Notes:
Rejection
> 50 dB @ < 1500 MHz
> 70 dB @ > 1640 MHz

© 2026 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.
+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression



PEANGPS1020-SM-060

Mechanical Specifications

Size	
Length	3.94 in [100.08 mm]
Width	3.94 in [100.08 mm]
Height	4 in [101.6 mm]
Weight	0.33 lbs [149.69 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-55 to +95 deg C
Shock	MIL-STD-810-G - Test Method 516.6
Vibration	MIL-STD-810-E - Test Method 514.5
Corrosion	MIL-STD-810-F - Test Method 509.5
Ingress Protection	IP69K

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

© 2026 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression



PEANGPS1020-SM-060

Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression 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: Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression PEANGPS1020-SM-060

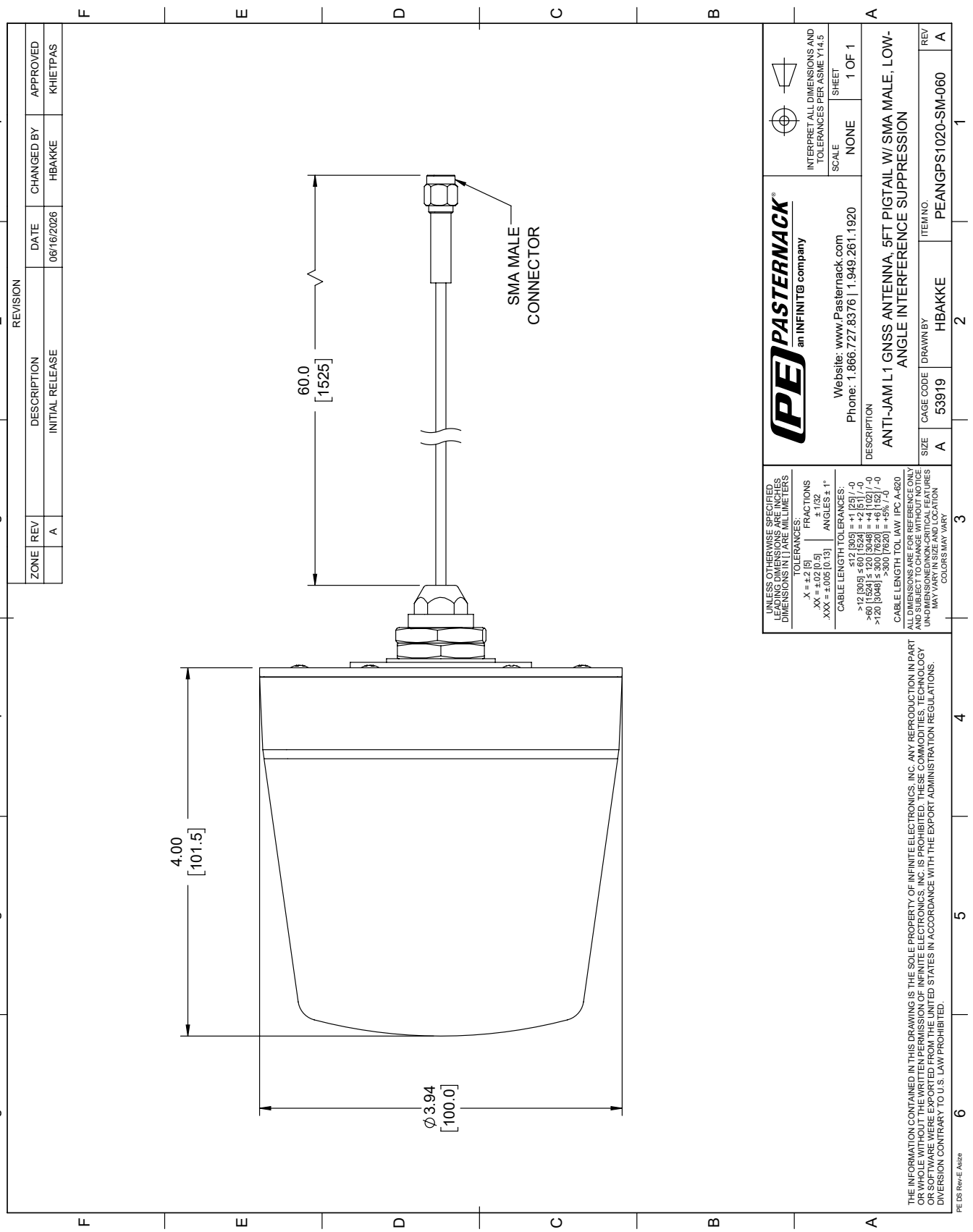
URL: https://www.pasternack.com/40-db-band-patch-gps-antenna-1559-1606-mhz-sma-male-connector-peangps1020-sm-060.html

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

© 2026 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.

PEANGPS1020-SM-060 CAD Drawing

Anti-Jam L1 GNSS Antenna, 5ft Pigtail w/ SMA Male, Low-Angle Interference Suppression



© 2025 Infinite Electronics, Inc. Pasternack is a registered trademark of Infinite Electronics, Inc.