

## WPANTDP091-R1A

### GPS L1 Band Active Module



### Description / Application

This ruggedized antenna contains Active GPS Module for L1 Band function. This can be used in portable navigation and tracking applications where high performance is required. The module consists of a circularly polarized patch antenna and a Low Noise Amplifier (LNA). It comes with a 3 feet long RG-174 cable with a right angle Type-N male (with hex nut) at the end.

We can assist your engineers to optimize mounting positions for these antennas in your applications and can further customize the antennas for your specific needs. Please contact [sales@worldproducts.com](mailto:sales@worldproducts.com) with your specific application requirements.

### Electrical Properties

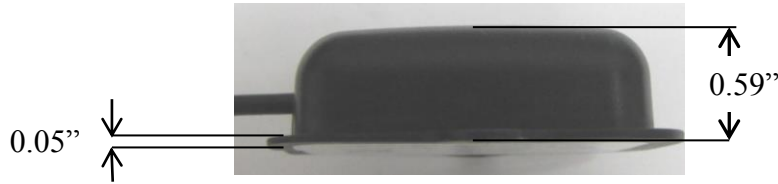
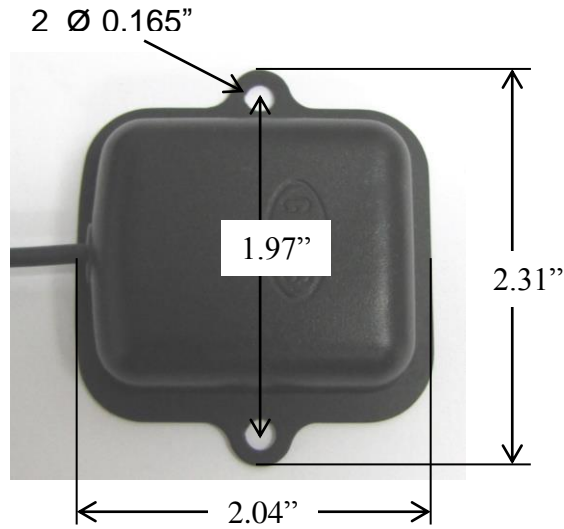
<b>Operating Frequency</b>	1567 – 1583 MHz
<b>Approximate Antenna Impedance [Ω]</b>	50Ω
<b>VSWR – Typical</b>	< 2:1
<b>LNA Gain [dBi] (Typical)</b>	27 dBi
<b>Active Antenna Peak Gain [dBi]</b>	27 dBi @ Zenith
<b>Voltage [V] (Typical)</b>	3.0 – 5.0 V
<b>Current [mA] (Typical)</b>	6 mA
<b>Noise Figure [dB] (Typical)</b>	1.5 dB
<b>Polarization</b>	RHCP
<b>Axial Ratio [dB] (Typical)</b>	3 dB
<b>Accepted Power [W] (Max)</b>	2 Watts

### Mechanical / Environmental Properties

<b>Antenna Dimensions (L x W x H)</b>	2.04" x 2.31" x 0.59" (51.82mm x 58.67mm x 15mm)				
<b>Antenna Color</b>	Black				
<b>Material</b>	ABS Plastic				
<b>Bracket Vertical Strength</b>	5 kgf				
<b>Cable</b>	3 feet long RG-174				
<b>Connector</b>	Right Angle Type-N Male with hex nut				
<b>Operating / Storage Temperature</b>	-40°C to +90°C				
<b>Environmental</b>	Meets standards for UL 94V-0 This antenna is built in accordance with: IP 67				
<b>UV Protection</b>	Cycle	Light	Light Strength	Explore Cycle	Temperature
	1	UVA-340	0.89 W / m <sup>2</sup> @340 nm	8h Light 4h high tem dark	60 ± 3 °C 50 ± 3 °C
<b>Hazardous Materials</b>	RoHS Compliant				

### Pictures of the Antenna

All units are in inches



### Pictures of the Antenna



Connector Dimensions in Millimeter

