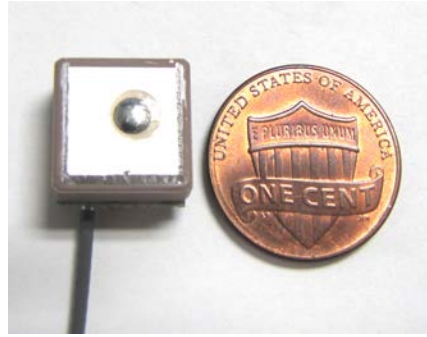


WPANT65012-R1A

GPS L1 Band Active Patch Module



Description / Application

This is a 12mm X 12mm Active Patch Module for GPS L1 Band frequencies. This can be used in portable navigation & tracking applications. The module consists of a circularly polarized patch antenna and a single stage Low Noise Amplifier (LNA). It comes with a U.FL cable and an IPX / Hirose equivalent connector.

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

Electrical Properties

Operating Frequency	1567 – 1583 MHz
Approximate Antenna Impedance [Ω]	50 Ω
LNA Gain [dBi] (Typical)	20 dBi
Active Antenna Peak Gain [dBi]	20 dBi @ Zenith
Voltage [V] (Typical)	2.3 – 5.5 V
Current [mA] (Typical)	6 mA
Noise Figure [dB] (Typical)	1.8 dB
Polarization	RHCP
Axial Ratio [dB] (Typical)	3 dB

Mechanical / Environmental Properties

Patch Dimensions	11.8mm X 11.8mm X 4mm
Module Dimensions	11.8mm X 11.8mm X 6.5mm
Cable	100mm long 1.13mm OD Micro Co-ax
Connector	IPX / Hirose equivalent
Operating / Storage Temperature	-40°C to +90°C
Environmental	IP67 rated; Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

Pictures of the Antenna

