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Sept. 2007

Powered by OGO Electronics

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GPS Antenna Solution

Purchase Order number: OGO-AC-GPS-ANT-01

The OGO GPS-ANT-01 is a small, lightweight, portable and ready to use high quality GPS Antenna. The GPS-ANT-01 is waterproof and has a magnetic base making it ideal for vehicle mounted applications. Being an active antenna incorporates an LNA (low noise amplifier) that gives it far superior performance to passive equivalents.

For best performance, the antenna must be placed on a metal surface, such as the roof of a vehicle, so that a ground plane is formed.

Key Features

- Low noise figure
- Fully waterproof
- Ultra low power consumption
- Compact construction
- Excellent temperature stability
- Magnetic mount base



Specifications

Antenna

Frequency range	1,575.42 ± 3MHz
Gain	90: 3.0 dBi min. 20: -5.0 dBi min. (Mounted on the 70 x 70mm square ground plane)
Polarization	RHCP
Axial ratio	90: 3dB typical
Azimuth Coverage	360 degrees
Elevation Coverage	0 degree to 90 degrees

LNA/Filter

Frequency range	1,575.42 ± 3MHz
Gain	28 ± 3db (+25°C); 28 ± 5db (-40°C to 85°C)
Noise	1.5dB max (+25°C); 2.5dB max (+85°C)
Out of band rejection	fo=1,575.42MHz; fo=50MHz 25db typical; fo=100MHz 35db typical
Reverse isolation	50dB typical
Output impedance	50Ω
Output VSWR	2.0 max.

For more information contact us at: info@ogoelectronics.com

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Overall specifications (through antenna, LNA, cable and connector)

Frequency range	1,575.42 ± 3MHz
Gain	28 ± 3db (+25°C); 28 ± 5db (-40°C to 85°C) (Mounted on the 70 x 70mm square ground plane) including cable loss
Output impedance	50Ω
Output VSWR	2.0 max.
Compression@L1	-5dBm@LNA input

General**A. Environmental conditions**

Operation temperature	-40°C to 85°C
Storage temperature	-40°C to 100°C
Relative humidity	20% to 95%

B. Electrical specifications

Input voltage	2.5~4.5V
Power consumption	7mA typical@ 3.0V
Output connector	FME SMA
Cable	2m RG174/U (std.) 3m (optional)
Optional connector	FME MCX/SMBB/SMC

C. Mechanical specifications

Dimensions	L: 43mm W: 33mm H: 13.3mm
Weight	23.0g

D. Others

Recommended storage condition	Temperature -40°C to 85°C Humidity 80% max
Waterproof	100% waterproof
Plastic color	Black

All specifications are subject to change without notice

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