

GPS Antenna

MODEL : GPS-10

GPS Marine Antenna with DC 2.5~5.5V Input Voltage



GPS-10 is designed for the Marine Vessels mast or tall buildings that require long extra cables without signal constraint to the GPS receivers. It is the integration of the high performance GPS patch antenna and a low noise amplifier into an extremely fully waterproof enclosure and when connected to a GPS receiver with 2.5~5.5VDC antenna power, it can provide excellent antenna signal amplification and out-band filtering with rejection for that receiver at 3V DC or 5V DC input Voltage.

Features

- **Full waterproof**
- **Low noise amplifier**
- **Voltage: 2.5 ~5.5 V DC**
- **Storage temperature: - 30°C to + 75°C**
- **High performance GPS patch antenna**

1.0 SYSTEM:

This antenna system consists of two functional blocks, the LNA portion and the patch antenna.

2.0 GENERAL

2.1 ENVIRONMENTAL CONDITIONS

2.1.1	Operation Temperature	- 20°C to + 65°C
2.1.2	Storage Temperature	- 30°C to + 75°C
2.1.3	Relative Humidity	40% to 95%

2.2 ELECTRICAL SPECIFICATIONS

2.2.1	Input Voltage	Min: 2.5 V	Typ: 3.0 V	Max: 5.5V
2.2.2	Current Consumption	Typ: 11 mA	Max: 15mA	@ 3.0V

3.0 ANTENNA

3.1	Antenna Dimensions	25mm*25mm*4mm
3.2	Frequency GPS	1575.42 ± 1.023 MHz.
	Frequency Glonass	1602±1.023 MHz
3.3	Gain	2 dBic Typ. @zenith
3.4	Polaration	RHCP
3.5	Axialration	Max 4.0dB@zenith

4.0 LNA

4.1	Frequency Range	1575.42 ± 1.023 MHz
4.2	Gain	28 dB Min. 30 dB Typ.(+ 25 °C ± 5°C)
4.3	Noise Figure	1.6 dB Max. (+ 25 °C ± 5°C) @ 3.0V
4.4	Output Impedance	50 Ω
4.5	Output VSWR	2.0 Max

5.0 TOTAL SPECIFICATIONS (Through Antenna, LNA, Cable and Connector)

5.1	Frequency Range	1575.42 ± 1.023MHz
5.2	Gain	At 90° 32 ± 4dBic
5.3	Output Impedance	50 Ω
5.4	Output VSWR	2.0 Max

6.0 Connector

6.1	Connector available	TNC F(BH)
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