Antenna_GPS_SMA_3M

User Guide
For GV300 Devices

ACCEAAG300UG001

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Contents

0. Revision history

Revision	Date	Author	Description of change
1.00	2012-06-15	Cid Xu	Initial

1. General Description

Antenna_GPS_SMA_3M is a GPS Active Antenna with SMA type RF connector. The cable length is 3m.

2. General Specification

2.1. Appearance

Antenna Unit (with radome, connector, and cable – refer to an attached drawing)

Dimensions	37.5*34.5*12.5mm ;	Radome	#D
Weight	62±5g(typ);	Connector	SMA PLUG
Cable	RG-174 3m		

2.2. Operating Condition

Temperature	-40 to +90℃
Humidity	10 to 95% RH

2.3. Storage Condition

Temperature	-40 to +90℃
Humidity	10 to 95% RH

3. Electrical Specification

* All value are defined at 25±15℃, 65±20%RH, power handling 1 u watt, air pressure 960 ± 100 HPA unless otherwise notes.
* Patch characteristics are measured with 70x70 mm ground plane in an anechoic chamber.

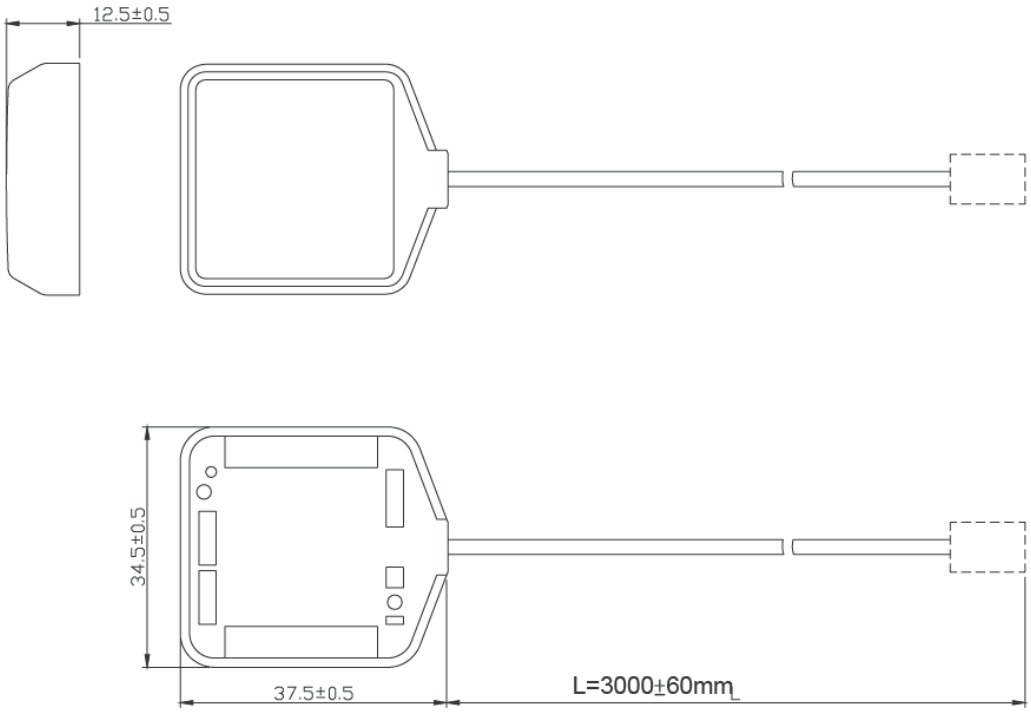
3.1. Patch

Characteristics	Specification
Center Frequency	1575.42 MHz (when covered with a radome and measured by 70*70mm ground plane)
Bandwidth(10dB return loss)	10 MHz min
Gain at Zenith	5.0 dBic typ
Gain at 10° elevation	- 1.0 dBic min
Polarization	R.H.C.P
Axial Ratio	3.0 dB typ

3.2. Filter / LNA

Characteristics	Specification
Center Frequency	1575.42 MHz
Gain	27±3 dB
Noise Figure	1.5 dB typ
Filter Out band attenuation	7dB TYP fo±20MHz 20dB TYP fo±50MHz 30dB TYP fo±100MHz (fo=1575.42MHz)
Output V.S.W.R	2.0 max
Voltage (3.3V)	DC = 3.3±0.6V
Current (3.3V)	12mA TYP 15mA max

4. Dimensions



Connector Appearance: SMA PLUG