

GPS/GLONASS Antenna

Ct-GG6180 SMA 180D 5M



Specifications Sheet V0.1

Features :

- 3V/30dB/5M/SMA 180°

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	-40°C to + 85°C
2.1.2	Storage Temperatur	-40°C to + 85°C
2.1.3	Relative Humidity	40% to 95%

2.2 ELECTRICAL SPECIFICATIONS

2.2.1	Input Voltage	Min:2.5V	Typ:3.0V	Max:5.5V
2.2.2	Power Consumption	Typ: 10mA.	Max: 15mA.	@3.0V

2.3 Cable & Connector

2.3.1	RF Cable	RF Coaxial Cable, $\psi 2.7 \pm 0.2\text{mm}$,
2.3.2	RF Connector	SMA 180°

3. ANTENNA

3.1	Antenna Dimensions	25x25x4mm
3.2	Frequency Range	1575.42 \pm 1.0 MHz. 1602 \pm 8MHz
3.3	Gain	1575.42MHZ:+ 1 dBic Typ. @zenith($\psi 70\text{mm}$ Ground) 1602MHZ:+1 dBic Typ. @zenith($\psi 70\text{mm}$ Ground)
3.4	Polarization	RHCP
3.5	Axial Ratio	3dBic(at Elevation 90°-Zenith)

4.0 LNA and FILTER

4.1	Frequency Range	1575.42 ± 10 MHz 1602±8 MHz.
4.2	Gain (without Cable)	1575.42MHz:28 dB Min.30 dB Typ.(+ 25 °C ± 5°C) 1602MHz:28 dB Min.30 dB Typ.(+ 25 °C ± 5°C)
4.3	Noise Figure	2.0 dB Typ. (+ 25 °C ± 5°C) 2.6 dB Max. (+ 85 °C)
4.4	Output Impedance	50Ω
4.5	Output VSWR	2.0 Max
4.6	Output Band Rejection	1587.5 ±140MHz 15dB Min

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

5.1	Frequency Range	1575.42 ± 10 MHz. 1602±8 MHz.
5.2	Gain	At 90° 31± 3dBic
5.3	Output Impedance	50Ω
5.4	VSWR	2.0 Max

6.0 Outline

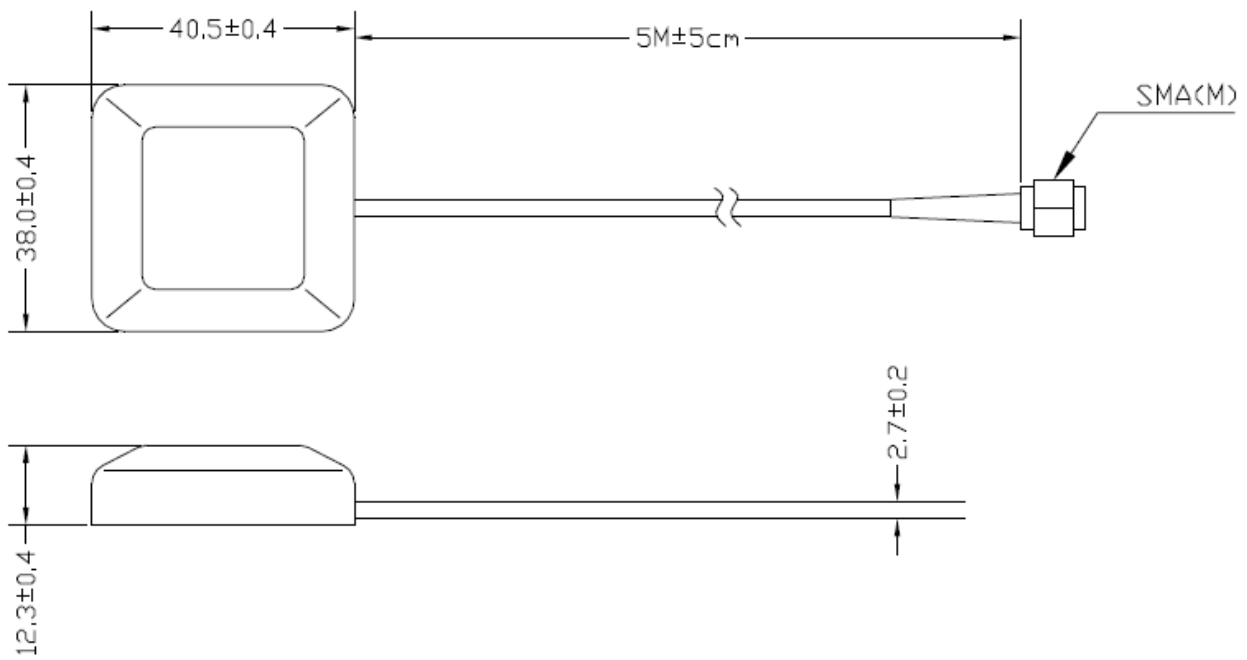


Fig. 2

Unit:mm