

## **GNSS Antenna**

**(Helical omni-directional antenna)**

**GPA-1803**



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## Overview

GPA-1803 is an antenna designed for GPS L1, BDS B1 and GLONASS G1 systems. It is a helical antenna with omni-directional coverage and has a built-in LNA and filter to secure working in an adverse circumstance. The antenna can be applied for portable and terminal devices.

### 1 Antenna features

Frequency Range	1550MHz~1615MHz
Impedance	50 Ohm
Polarization	RHCP
Coverage	360°
VSWR	≤2.0:1
Gain of Antenna	2dBi

### 2 Specification

LNA Gain	18dB(3.3V)
Noise Figure	≤1.5dB
VSWR (output)	≤2.0
VSWR (input)	≤1.5
Gain Flatness	±1dB
Pout at 1dB Gain Compression Point	≥0dBm
LNA Drain Voltage	3~3.3VDC
LNA Current Consumption	6±2mA (3V)

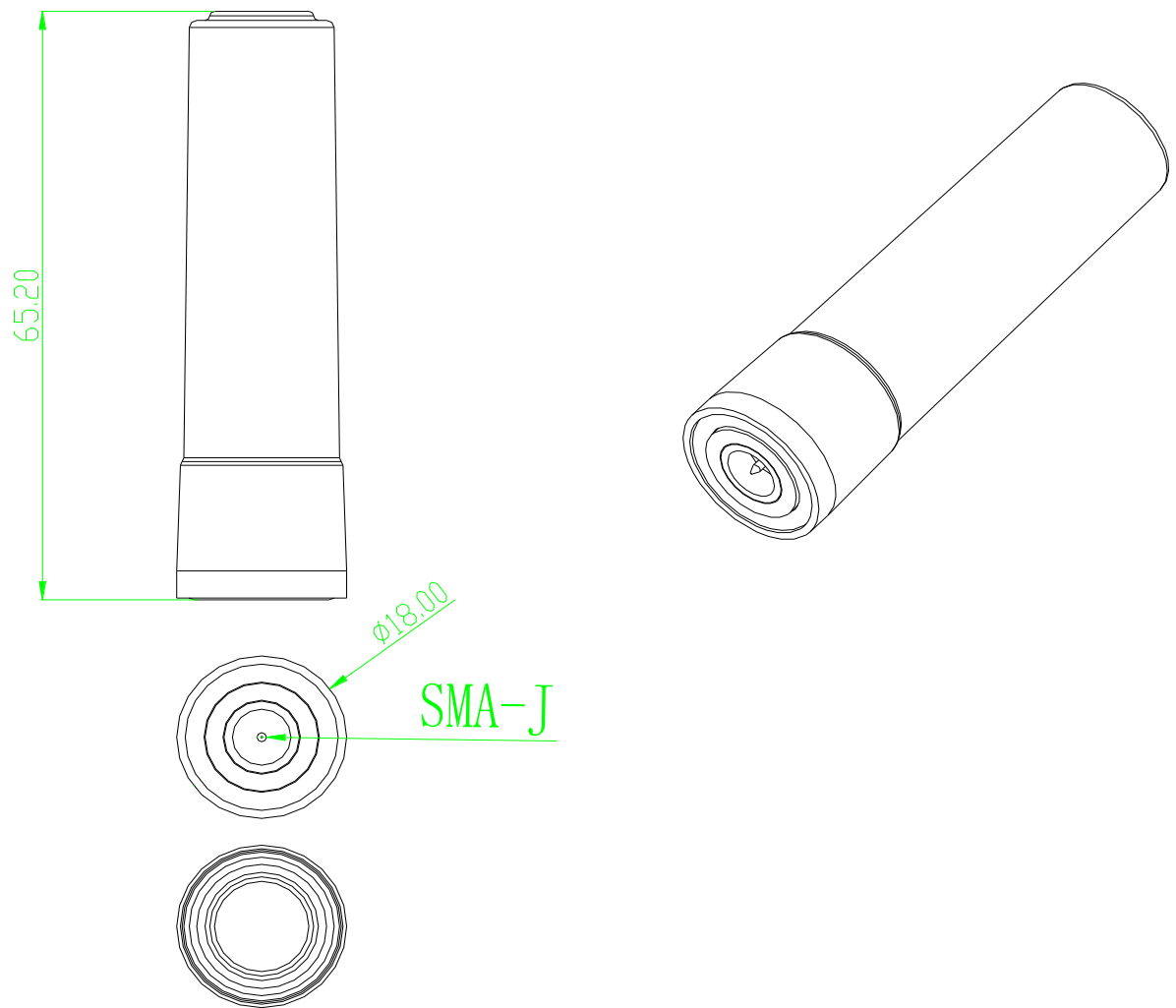
### 3 Antenna dimensions

Dimension	φ 18×65.2mm
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### 4 Operation&Storage temperature

Operating Temp.	-40°C ~+85°C
Storage Temp.	-40°C ~+85°C

## 5 Antenna drawing (unit:mm)



未注尺寸公差±0.2