BT-104L5

GNSS Helical Antenna

Datasheet

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PRODUCT DESCRIPTION

BT-104L5 GNSS antenna is an L1+L5 active spiral antenna, designed with multi-arm spiral technology, which supports the L1 band satellite navigation signal reception of Beidou II, GPS, GLONASS and GALILEO systems, meets the current needs of multi-system compatibility and high-precision measurement, and can be widely used in high-precision navigation and positioning occasions such as portable equipment, unmanned aerial vehicles, navigation and scheduling. Accept user customization.

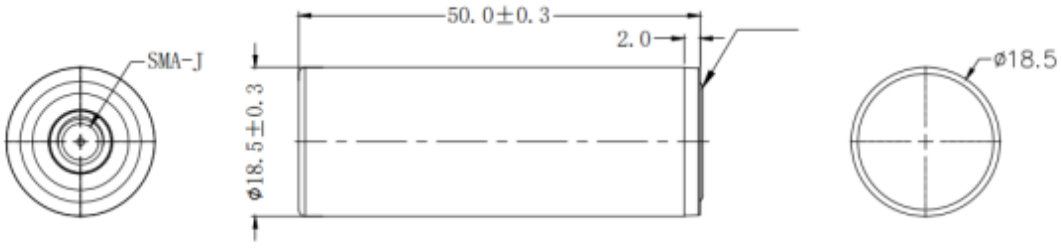
PRODUCT APPLICATION

It is suitable for the occasions that require volume and weight, such as UAV, micro RTK, Ami handset/flat panel and other portable devices. Accept user customization.

TECHNICAL CHARACTERISTICS

- Eight-arm coupled quadruple-fed zero phase center technology ensures right-handed circular polarization and phase center stability.
- The antenna unit has high passive gain and wide beam width to ensure the receiving effect of low elevation signal.
- Delicate low noise, high gain amplification and excellent out-of-band suppression;
- Small size, light weight, easy to carry and install.

DIMENSION



Unit: mm

MAIN PARAMETER

Item	Specifications
Bands	GPS: L1, L1C,L5C BDS: B1I,B1C,B2a Galileo: E1, E5a QZSS: L5 IRNSS:S-L5
Polarization	RHCP
Axis Ratio of Antenna	3dB
Horizontal Coverage	360 °
GAIN	3.5dBi
LNA GAIN	28±2dB
Noise Figure	≤2dB
Output VSWR	≤2.0:1
Band flatness	±2dB
Supply Voltage	3.3V
Supply Current	≤30mA
Operating Temperature	－40℃ -＋80℃
Storage Temperature	－45℃ -＋85℃
Humidity	95%
Dimensions	Φ18.5mm*50.0mm
Connector	SMA-J
Weight	≤11g
Waterproof grade	IP67

FCC Warning Statement

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna of the radio/TV.

-- Increase the separation between the equipment and receiver(radio/TV).

-- Connect the equipment into an outlet on a circuit different from that to which the receiver(radio/TV) is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1)This device may not cause harmful interference.

(2)This device must accept any interference received, including interference that may cause undesired operation.