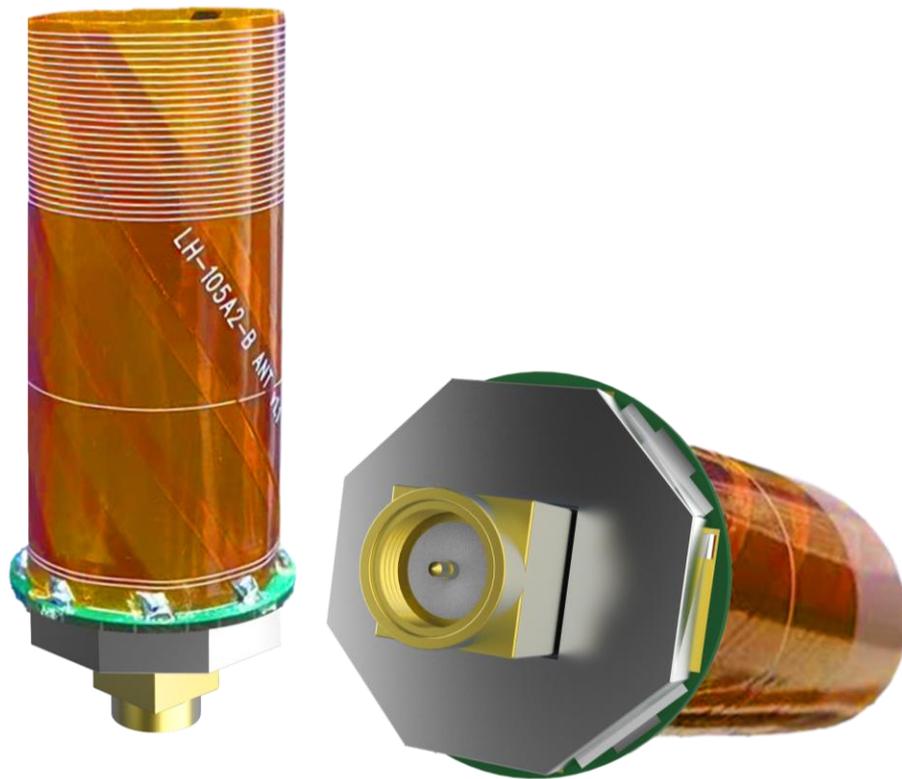


LF-105A2-B Specification



High Performance Embedded Antenna

1. Introduction

Locosys LF-105A2-B embedded antenna is designed for high precision positioning and offers superior satellite signal tracking, including GPS, GLONASS, GALILEO, and Beidou service. It supports multiple frequency bands, including L1 and L5, enhancing its capability to receive more accurate and reliable signals from different constellations. The antenna is equipped with an SMA connector, allowing for easy integration with various devices and systems. The multi-frequency support and SMA interface ensure stable connections, mitigating issues like signal interference and multipath errors, ensuring robust performance in challenging environments.

2. Application

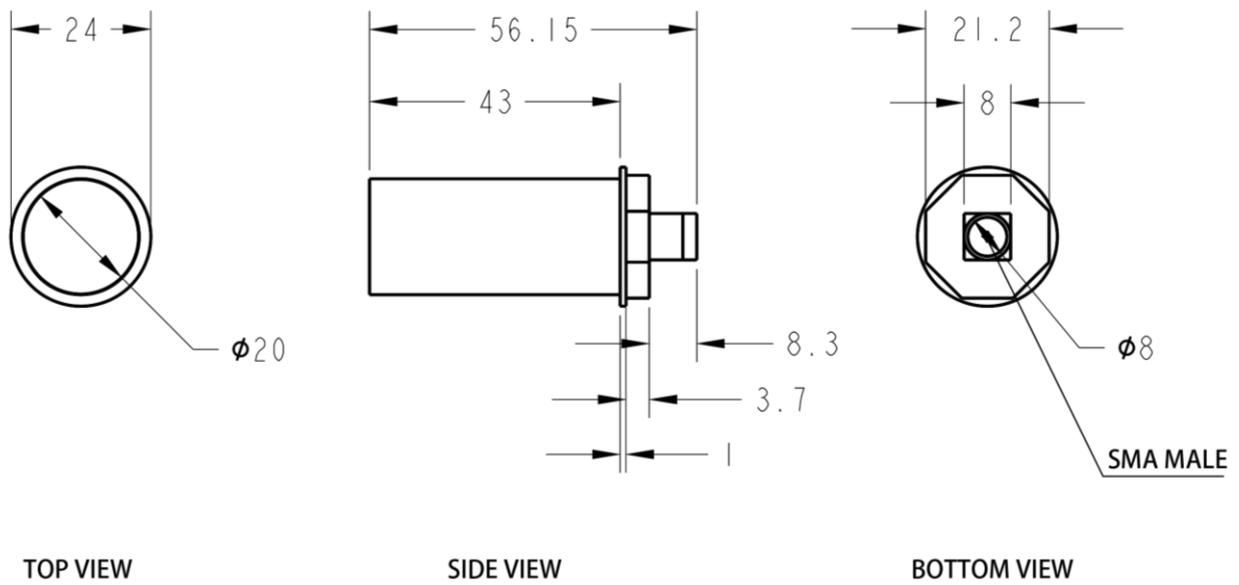
Its RTK level positioning accuracy makes it ideal for applications such as surveying, mapping, hand-held device, and various UAV operations, where precision and reliability are critical.

3. Technical specification

Passive antenna performance	
Frequency	GPS/QZSS: L1, L5 GLONASS: L1 GALILEO: E1, E5a BEIDOU: B1I, B2a IRNSS: L5
Polarization	RHCP
Axial ratio	≤ 3 dB
Peak gain	0.5 dBi
RF specification	
Conducted gain	26 ± 3 dB
Noise figure	≤ 2 dB
Output impedance	50 Ω
Out of band rejection	40 dB
Operating voltage	2V ~ 6V
Operating current	6.7 mA

Mechanical specification	
Connector type	SMA male
Dimension	24D x 56.15H mm
Weight	≤ 7 g
Environment	
Operating temperature	-40 ~ 85 °C
Storage temperature	-40 ~ 85 °C

4. Size Unit:mm (Tolerance ± 0.3MM)



UNIT : mm