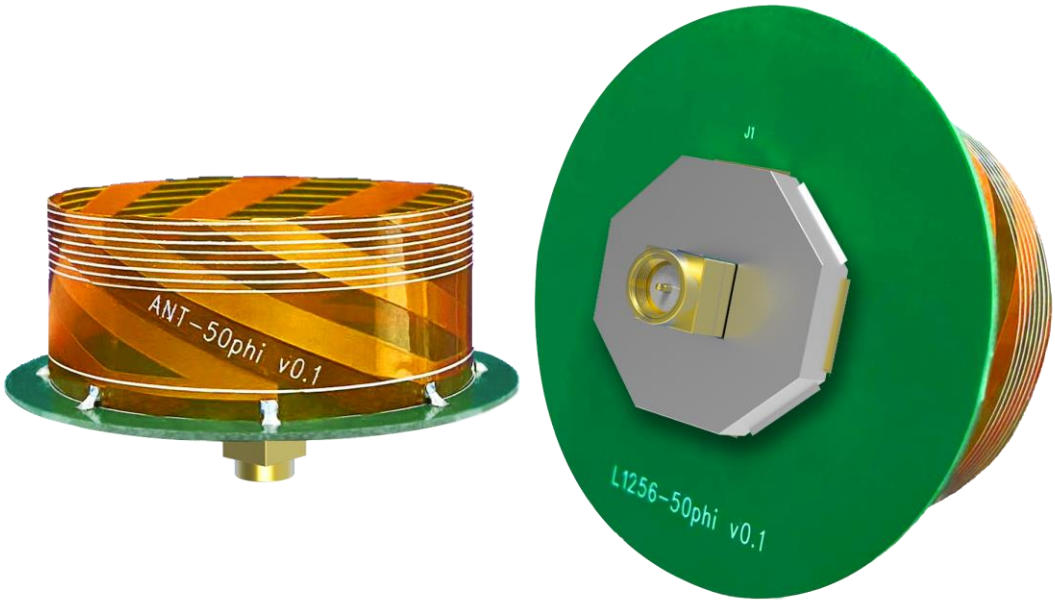
LF-1256L Specification



High Performance Embedded Antenna

1. Introduction

Locosys LF-1256L embedded antenna is designed for high precision positioning and offers superior satellite signal tracking, including GPS, GLONASS, GALILEO, and Beidou, as well as L-Band correction service. It supports multiple frequency bands, including L1, L2, 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

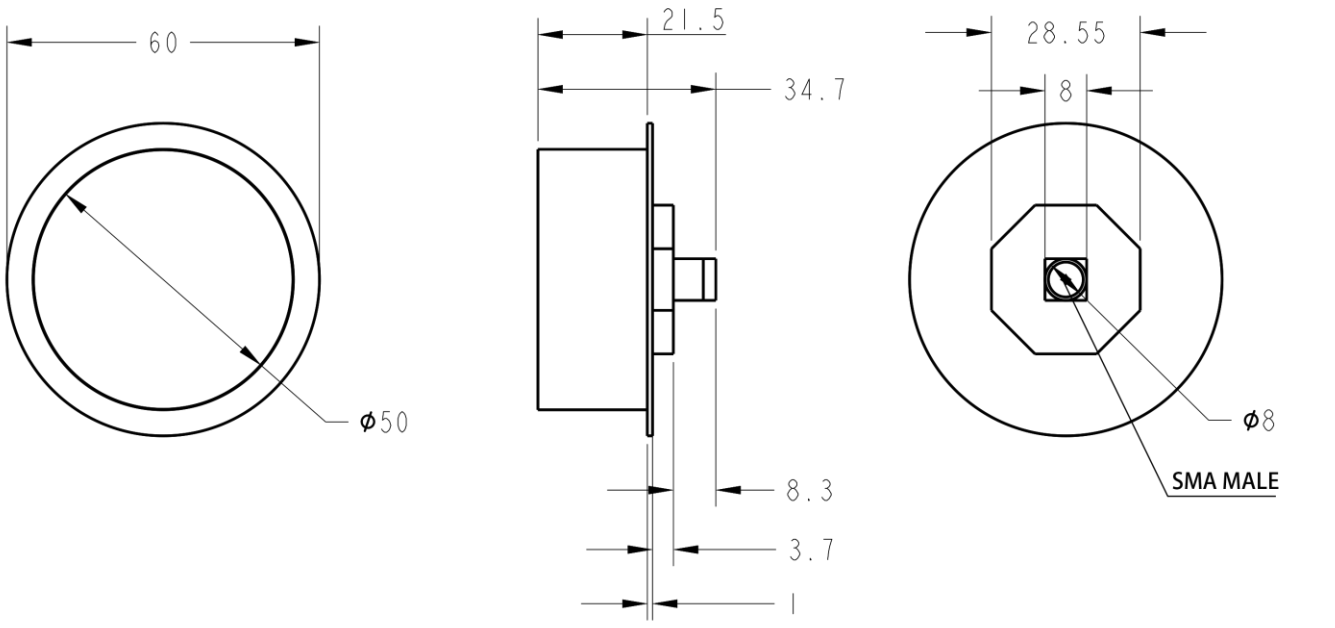
Its RTK level positioning accuracy makes it ideal for applications such as surveying, mapping, hand-held device, and various UAV operations, where precision and reliability are critical.

3. Technical specification

Passive antenna performance	
Frequency	GPS: L1, L2, L5 GLONASS: L1, L2, L3 GALILEO: E1, E5a, E5b, E6 BEIDOU: B1I, B1C, B2a, B2b, B3I NAVIC: L5 QZSS: L1, L2, L5, L6 L Band: 1525 MHz - 1559 MHZ
Polarization	RHCP
Axial ratio	≤ 3 dB
Peak gain	3.0 dBi
RF specification	
Conducted gain	36.4 ± 3 dB
Noise figure	≤ 2 dB
Output impedance	50 Ω
Out of band rejection	40 dB

Operating voltage	2.1V ~ 18V
Operating current	13.5 mA typ.
Mechanical specification	
Connector type	SMA male
Dimension	60D x 34.7H mm
Weight	≤ 13.6 g
Environment	
Operating temperature	-40 ~ 85 ℃
Storage temperature	-40 ~ 85 ℃

4. Size Unit:mm (Tolerance ± 0.3MM)



TOP VIEW SIDE VIEW BOTTOM VIEW

UNIT : mm