

Vehicle Antenna

EV226

Description

EV226 is a high precision antenna that supports GPS, BDS, GLONASS, full-band system, it can meet the high precision positioning needs of vehicles.

Technical Features

1. Passive antenna with high gain, wide beam width, low elevation angle signal reception effect is good, can receive satellite signal in serious blocking environment;
2. Passive antenna with wide working band can support multi-system & multi-frequency well, especially the global networking B3 frequency point, greatly improving the stability of the system;
3. Small size, light weight, reliable structure, protection level up to IP67, greatly improving the reliability of the whole UAV/vehicle, such as waterproof, impact and so on;
4. Strong anti-interference performance, antenna out-of-band suppression is high, can effectively avoid base station and other signal interference caused by system instability.

Application

- Unmanned delivery vehicle
- Self-driving truck
- Self-drive bus
- Self-driving cab
- Unmanned & unpiloted

Technical parameters

Passive antenna characteristics

Frequency Range	BDS: B1I/B2I/B2A GPS: L1/L2/L5 GLONASS: G1/G2 GALILEO: E1/E6/E5b L-Band	Polarization	RHCP
		Antenna axis ratio	≤3dB
		Azimuth coverage	0°~360°
		VSWR	≤1.5
		Maximum gain	4dBi
Antenna Impedance	50Ω	Phase center error	±3mm

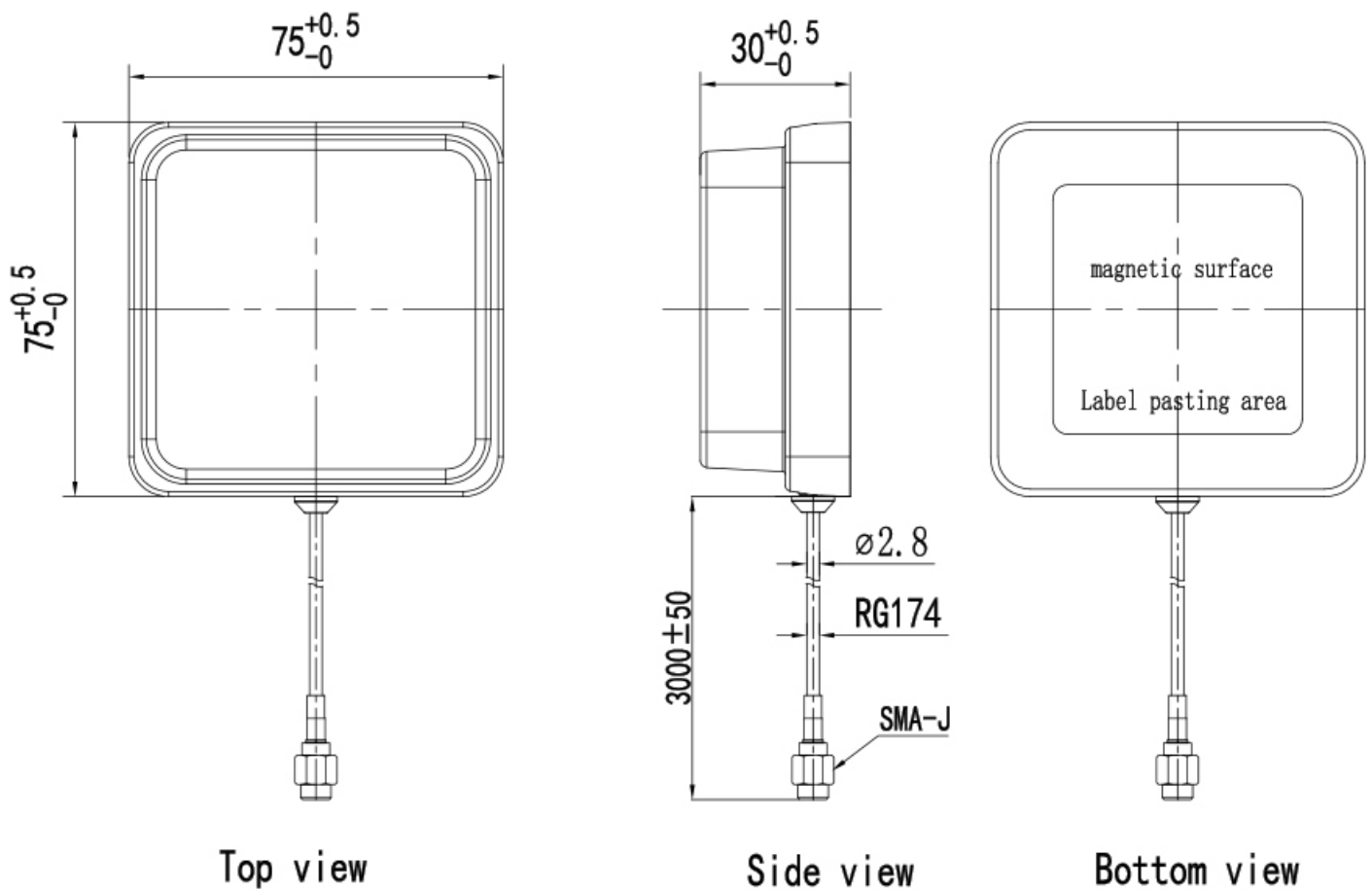
Low Noise Amplifier Characteristics

LNA Gain	33±2dB	Passband ripple	±2dB
Noise figure	≤2dB	Operating voltage	DC3.3~12V
VSWR	≤2.0	Operating current	≤50mA

Structural and environmental adaptability

Antenna size	L75*W75*H30mm	Waterproof rating	IP67
Weight	≤70g (weight without cable)	Operating TEMP	-40℃~+95℃
Connector	SMA male	Storage TEMP	-55℃~+95℃
Installation	Magnetic suction	Storage humidity	95% non-condensing

Structural drawing (dimensional tolerances ± 0.3 mm not noted)



Documentation

Serial No.	Contents	Version	Date
	All chapters	V1.0	2023-2-26
2			
3			
4			

Prepared by:

Checked by:

Approved by: