Aviation Antenna

EV108

Description

EV108 is a four-system multi-frequencyaerial antenna supporting GPS/BDS/GLONASS and GALILEO, which can be widely used in surveying and mapping, high-precision UAV, vehicle-mounted, etc. It is especially suitable for many applications of UAV, such as agriculture, aerial photography, telemetry, disaster surveillance, patrolling, security monitoring, Power patrol,etc.

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 points well, especially the global networking B3 frequency point, greatly improving the stability of the system;
3. Small size, light weight, reliable structure, assembled waterproof level up to IP67, single antenna test meets IP65, significantly improve the reliability of the UAV, such as waterproof, impact, etc;
4. Strong anti-interference performance, antenna out-of-band rejection is high, can effectively avoid base station and other signal interference caused by system instability.

Application

- Aerospace
- Telemetry
- Tracking and monitoring

Technical parameters

Passive antenna characteristics

Frequency Range	BDS: B1/B2/B3	Polarization	RHCP
	GPS:L1 /L2/L5	Antenna axis ratio	≤3dB
	GLONASS: G1/G2/G3	Azimuth coverage	0°~360°
	GALILEO : E1/E6/E5b	VSWR	≤1.5
	L-Band	Maximum gain	2.5dBi
Antenna Impedance	50Ω	Phase center error	±3mm

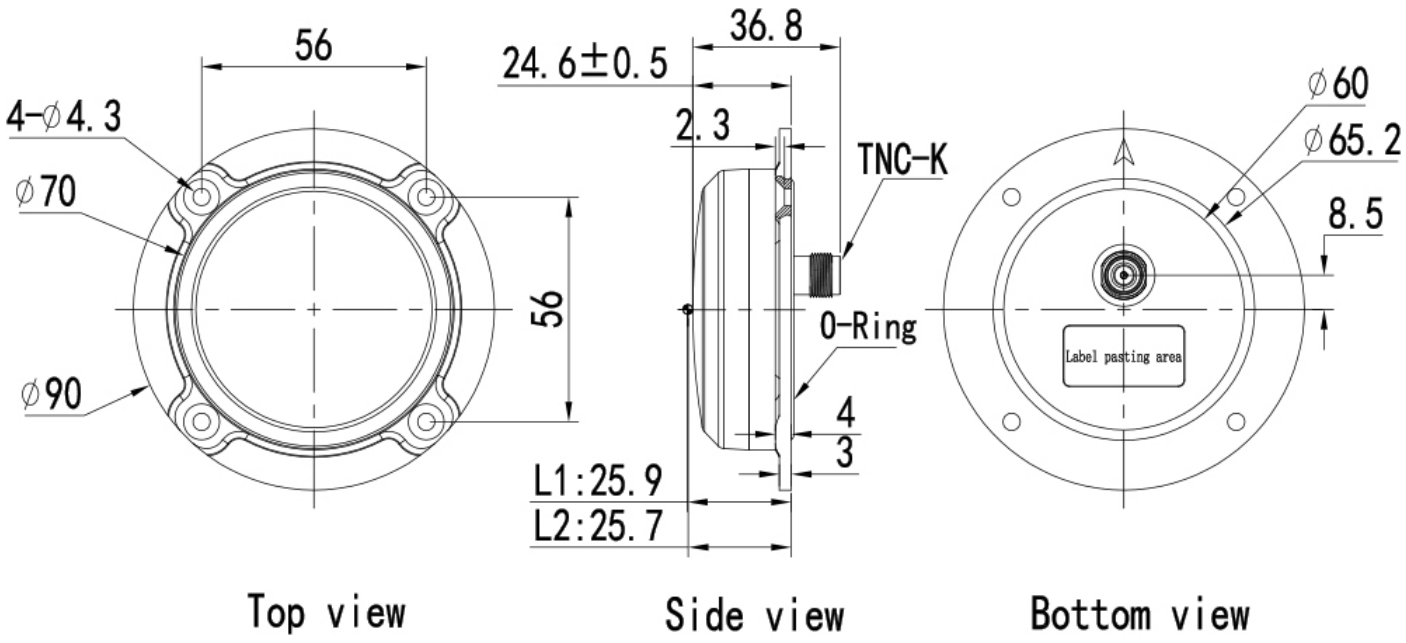
Low Noise Amplifier Characteristics

LNA Gain	36±2dB	Passband ripple	±2dB
Noise figure	≤2dB	Operating voltage	DC3.3～12V
VSWR	≤2.0	Operating current	≤50mA

Structural and environmental adaptability

Antenna size	Φ90*24.6mm(connector not included)	Waterproof rating	IP67
Weight	≤60g	Operating TEMP	-40℃～+85℃
Connector	TNC	Storage TEMP	-55℃～+85℃
Installation	?	Storage humidity	95% non-condensing

Structural drawing (dimensional tolerances ± 0.3 mm not noted)



Documentation

Serial No.	Contents	Version	Date
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