

Multi-frequency Handheld Antenna

EV006

Description

EV006 is a quad-system multi-frequency handheld antenna supporting GPS,BDS,GLONASS and GALILEO, which can be widely used in surveying and mapping, high-precision on UAVs, etc. It is especially suitable for surveying and mapping handhelds, PADs and so on.

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 point well, especially the global networking B3 frequency point, greatly improving the stability of the system.
3. Antenna with bending structure, compact size, easy to carry and convenient to use;
3. 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

- Survey and mapping
- Traffic patrol
- Public security monitoring
- Disaster monitoring
- Remote telemetry

Technical parameters

Passive antenna characteristics

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

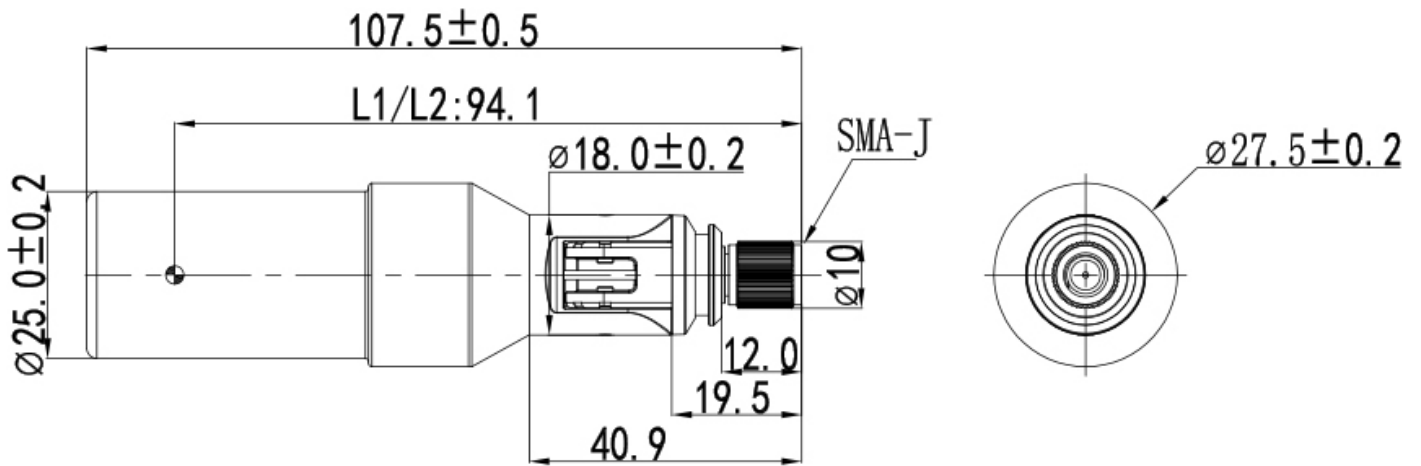
Low Noise Amplifier Characteristics

LNA Gain	33±2dB	Passband ripple	±1dB
Noise figure	≤1.5dB	Operating voltage	DC3.3~12V
VSWR	≤2.0	Operating current	≤50mA

Structural and environmental adaptability

Antenna size	Φ27.5*107.5mm	Installation	SMA Screw mount
Weight	?	Operating TEMP	-25℃~+70℃
Connector	SMA male head	Storage TEMP	-40℃~+70℃
Waterproof rating	IP67 (after installation of the whole machine)	Storage humidity	95% non-condensing

Structural drawing (dimensional tolerances ± 0.3 mm not noted)



Top view

Side view

Documentation

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

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