

HELIX ANTENNA MH3701A



HIGH PRECISION HELIX ANTENNA FOR POSITIONING APPLICATIONS

Product Description

MH3701A is a high performance GNSS antenna designed for high-precision positioning services, with a stable phase center that maintains high gain at lower elevation positions, providing excellent satellite signal tracking. The antenna is small in size, light in weight and low in power consumption, which can effectively reduce the load of the device and improve the battery life of the device.

Application Field

The antenna can be used with a variety of receivers, and is widely used in fields such as drones, handheld terminal equipment and small RTK equipment, and can also be selected for use in the military field according to application conditions.

KEY FEATURES

- Supports GPS L1/L2、GLONASS L1/L2、BD B1/B2/B3 signal reception
- High gain, wide beam and good reception effect for low elevation signal
- Stable phase centre that provides high-accuracy positioning down to the millimetre level
- Extremely low noise figure
- Extreme lightweight, Less than or equal to 30g



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PERFORMANCE

Signal Received	
GPS	L1/L2
GLONASS	L1/L2
BDS	B1/B2/B3
VSWR	<1.8
Maximum Gain	3.0dBi
Antenna AR	≤3.0dB
Polarization	RHCP
Port Impedance	50Ω
LNA Gain	33±2dB
Noise Figure	≤1.8dB

Operation Voltage	3.0-12 VDC
Operation Current	≤42mA

MECHANICAL

Dimensions	Φ27.5×58mm
Connector	SMA-J
Weight	≤30g

ENVIRONMENTAL

Temperature	
Operating	-40°C to +70°C
Storage	-55°C to +85°C

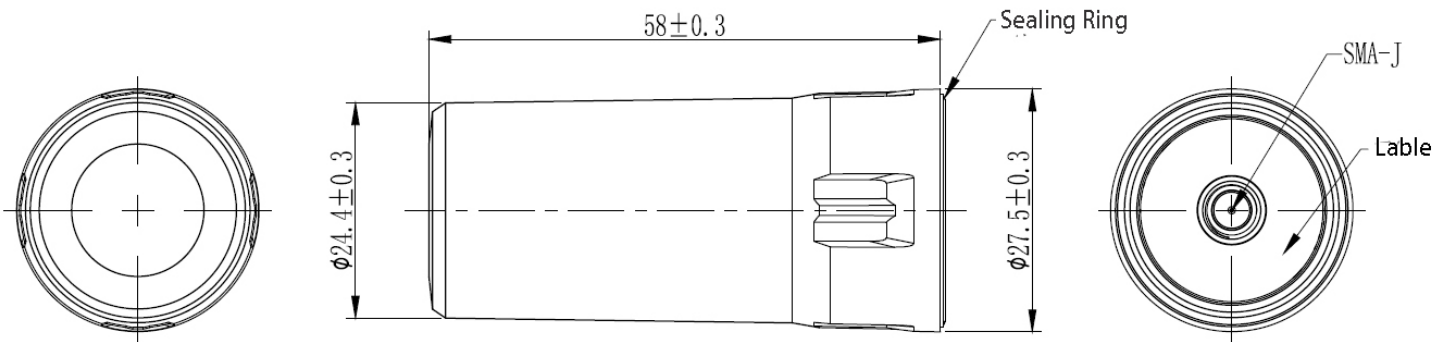
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Structure & Phase Center Drawing (mm)



Undeclared tolerance: ± 0.3 mm