

## HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS

### Product Description

MG4N57A is a four-star full-frequency measurement antenna, which has the characteristics of high gain, miniaturization, high sensitivity, multi-system compatibility and high reliability, and can effectively meet the needs of users.

### Application Field

The antenna can be used with a variety of satellite navigation receivers, and is widely used in fields such as geodetic surveying and mapping, channel surveying and mapping, precision agriculture and marine surveying, and can also be selected for use in the military field according to application conditions.

### KEY FEATURES

- Stable phase center guarantees the accuracy of positioning within millimeter-level
- Strong Anti-interference Performance
- High gain, miniaturization, high sensitivity and precision
- Robust low-elevation satellite tracking



# GEODETIC ANTENNA MG4N57A



## PERFORMANCE

<b>Signal Received</b>	
GPS	L1/L2/L5
GLONASS	L1/L2/L3
BD	B1/B2/B3
GALILEO	E1/E2/E5a/E5b
BT/WIFI/4G	
<b>VSWR</b>	≤2.0
<b>Maximum Gain</b>	5dBi
<b>Antenna AR</b>	≤3.0dB
<b>Phase Center Error</b>	±2mm
<b>Polarization</b>	RHCP
<b>Port Impedance</b>	50Ω
<b>LNA Gain</b>	40±2dB

<b>Band Flatness</b>	±2dB
<b>Noise Figure</b>	≤2.0dB
<b>Operation Voltage</b>	3.3-15 VDC
<b>Operation Current</b>	≤45mA

## MECHANICAL

<b>Dimensions</b>	Φ140.5x23.6mm
<b>Connector</b>	
GNSS	MCX-J-JW1.5
BT/WIFI/4G	JPEX
<b>Weight</b>	≤250g

## ENVIRONMENTAL

<b>Temperature</b>	
Operating	-40°C to +85°C
Storage	-55°C to +85°C
<b>Humidity</b>	95% non-condensing

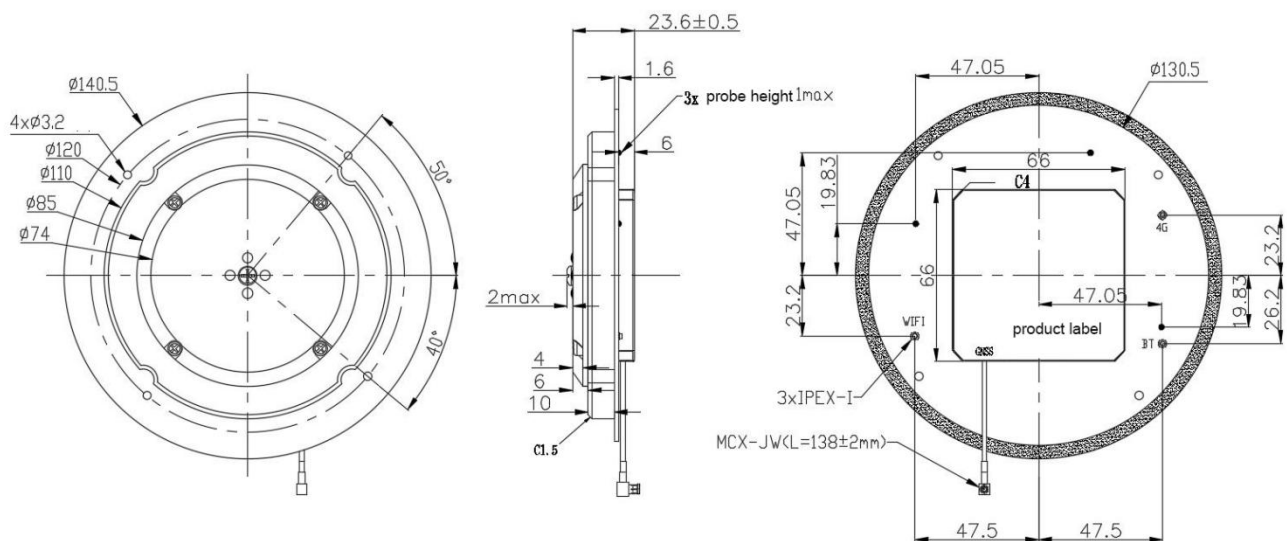
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## Structure & Phase Center Drawing (mm)



Undeclared tolerance: ±0.3mm