

HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS

Product Description

MG4N54A is a four-star full-frequency measurement antenna, which adopts a multi-feed point design scheme to realize the coincidence of phase center and geometric center, full frequency coverage and multi-system compatibility. It has the characteristics of high gain, high sensitivity and high reliability.

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

- Support the GPS L1 / L2 / L5
GLONASS L1/L2/L3 BD B1/B2/B3
GALILEO E1/E2/E5a/E5b 4G mobile communication
- Adopts multi-feed point design, ensures the performance of right-hand circular polarization and phase center, reduces the influence of measurement error.
- Strong Anti-interference Performance
- High gain, miniaturization, high sensitivity



GEODETIC ANTENNA MG4N54A



PERFORMANCE

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

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

MECHANICAL

Dimensions	Φ140.5x23.2mm
Connector	
GNSS	MCX-J
4G	MMCX-J
Weight	≤250g

ENVIRONMENTAL

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

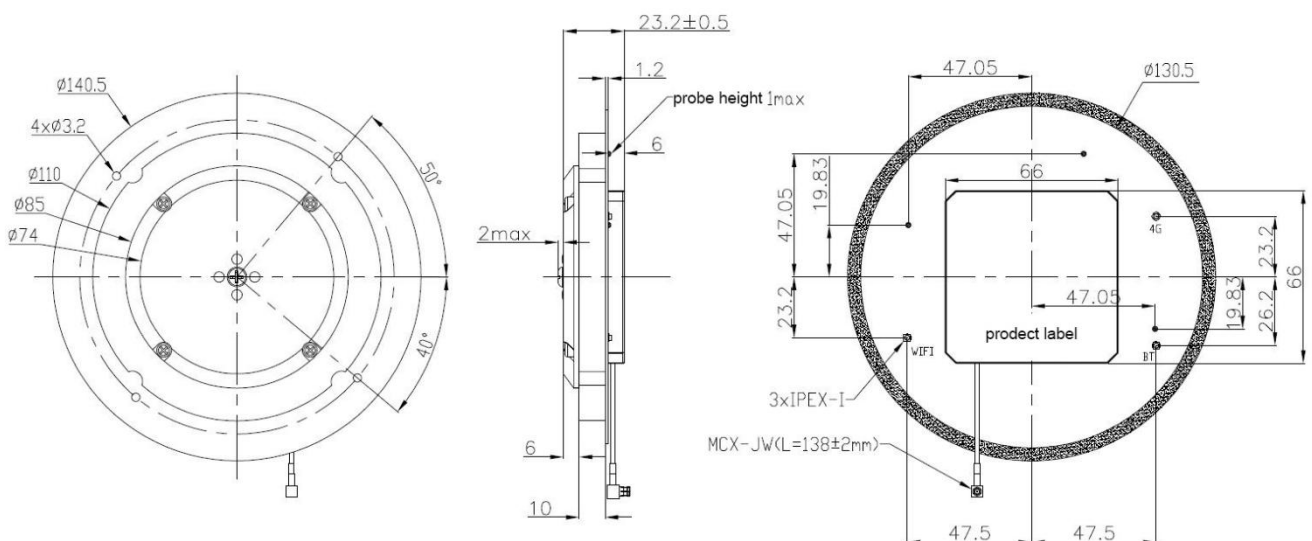
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Structure & Phase Center Drawing (mm)



Undeclared tolerance: ±0.3mm