GEODETIC ANTENNA MG4N01A

HIGH PRECISION GNSS ANTENNA FOR SURVEYING APPLICATIONS

Product Description

MG4N01A is a four-star full-frequency measurement antenna with the characteristics of high gain, miniaturization, high sensitivity, multi-system compatibility and high reliability, which 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

- Support the GPS L1 / L2 / L5 BDS B1/B2/B3 GLONASS L1/L2 GALILEO E1/E2/E5a/E5b Bluetooth, WIFI, 4G signal reception
- Adopts multi-feed point design, ensures the performance of right-hand circular polarization and phase center, reduces the influence of measurement error.
- Stable phase center guarantees the accuracy of positioning within millimeter-level
- High gain, miniaturization, high sensitivity, high reliability, multi-system compatibility

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PERFORMANCE

Signal Received	
GPS	L1/L2/L5
GLONASS	L1/L2
BDS	B1/B2/B3
GALILEO	E1/E2/E5a/E5b
BT/WIFI/4G	
VSWR	≤2.0
Maximum Gain	
GNSS	5.5dBi
BT/WIFI	1dBi
4G	0.5dBi
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-+12 VDC
Operation Current	≤45mA
Differential Transmission Delay	≤5ns

MECHANICAL

Dimensions	Φ135×26mm
Connector	
GNSS	MCX-C-JW1.5
BT/WIFI/4G	IPEX
Weight	≤200g

ENVIRONMENTAL

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

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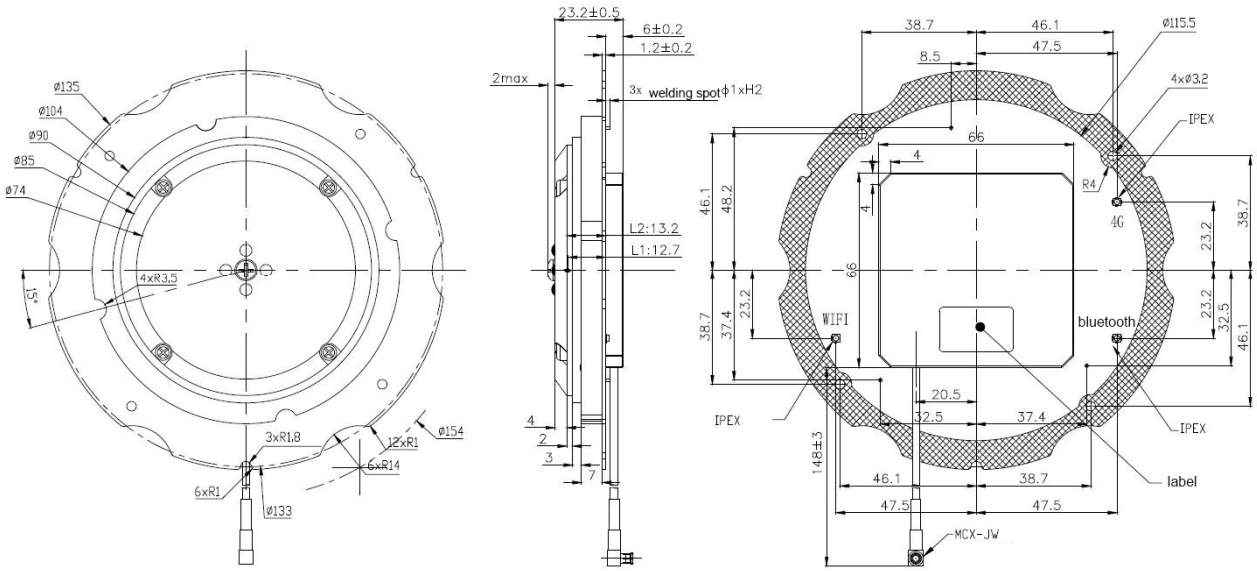
Structure& Phase Center Drawing (mm)



Undeclared tolerance:±0.3mm