

BDS ANTENNA SERIES



Mini Choke Ring Antenna HX-CG7601A

Product Information

The HX-CG7601A Mini Choke Ring antenna is designed to cover BDS B1/B2/B3, GPS L1/L2 and GLONASS L1/L2 systems, meeting the high precision, multi-system compatibility demands for survey equipment. It can be widely used in various applications of surveying, mapping and monitoring, e.g. land mapping, marine surveying, hydrographic surveying, marine dredging, seismic monitoring, bridge deformation monitoring, landslide monitoring and many more that require high precision positioning.

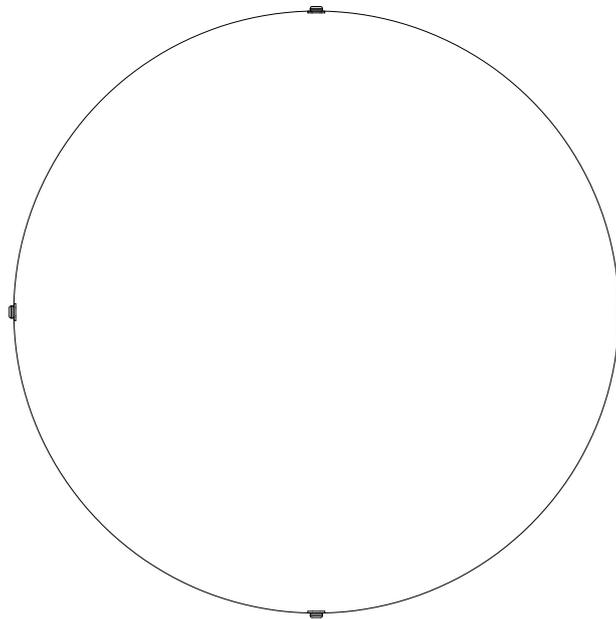
Technical Features

1. Submillimeter level precision, high stability and high repeatability at phase center.
2. Antenna with high gain and superior tracking performance at low elevation angle, enabling the system to work under sufficient satellites.
3. LNA has high gain which ensures .the operation with long cable (100 meters +).
4. Water & dust-proof design to ensure absolute seal of kernel parts, capable for long time outdoor operation.

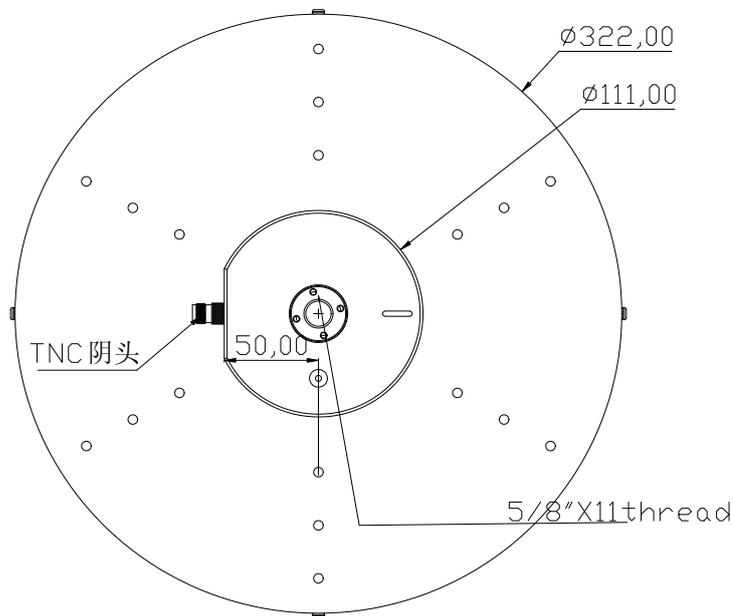


Specifications

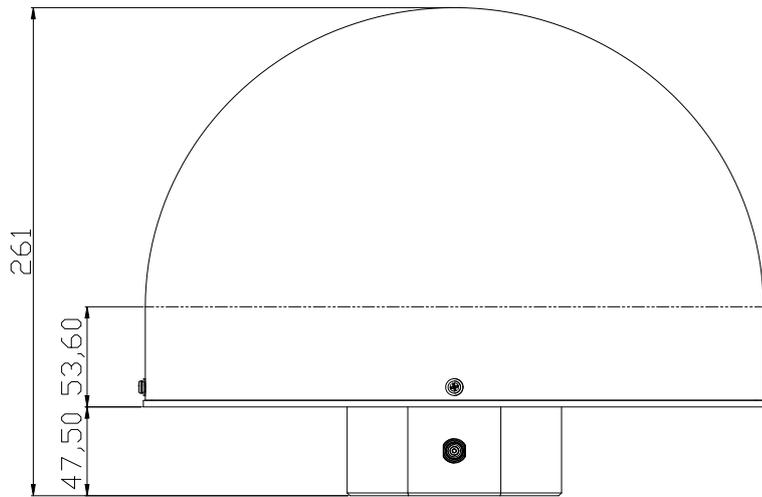
Antenna Specs	
Frequency Range	BDS B1/B2/B3 GPS L1/L2 GLONASS L1/L2
Impedance	50 ohm
Polarization Mode	Right-handed Circular Polarization
Axial Ratio	≤3dB
Elevation Coverage	360°
Output VSWR	≤2.0
Peak Gain	7dBi
Phase Center Error	±1mm
LNA Spec	
Gain	50±2dB
Noise Figure	≤2dB
Output VSWR	≤2.0
Flatness In Band	±2dB
Operating Voltage	3 ~ 18VDC
Operating Current	≤45mA
Differential Transfer Delay	≤5ns
Mechanical Spec	
Dimensions(Antenna)	φ322*261mm
Connector	TNC Female
Environmental Spec	
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-55°C ~ +85°C
Humidity	95% Non-condensing



Top View



Bottom View



Side View

Not specified tolerance: $\pm 0.2\text{mm}$