Antenna-AX3703

Datasheet

V2.0-170810

Mini GNSS Antenna

AX3703 is a miniature, light-weight, multi-frequency GNSS antenna, which receives GPS L1/L2, GLONASS G1/G2 and BDS B1/B2/B3 frequencies. Its outstanding performance in dynamic scenario and its light-weight are particularly suitable for drone and other moving platforms. Its rugged design makes it work well even in the most harsh environments.

Key Features：

- Supports multi-constellation and multi- frequency
    - GPS L1/L2, GLONASS G1/G2 and BDS B1/B2/B3
- Radom reduces the impact of temperature variation
- Rugged design supports complex working environment
- Super compact design with 87mm diameter (including ground plane)
- Lightning proof design protects antenna in harsh weather condition
- High gain, good low elevation roundness and wide-angle roundness polarization
- Multipath suppression technique improves performance in challenging environment
- Multiple feed design stabilizes carrier phase center and minimizes influence to measurement error

Sales & Technical Support：
sales@tersus-gnss.com
support@tersus-gnss.com

Technical Specifications

Antenna Specifications

- Frequencies…….....GPS L1/L2, GLONASS G1/G2, BDS B1/B2/B3
- Gain
  - GPS L1 ≥ 3.5dBi , L2 ≥ 3dBi
  - GLONASS G1 ≥ 3dBi , G2 ≥ 3dBi
  - BDS B1 ≥ 3.5dBi, B2 ≥ 3dBi, B3 ≥ 2dBi
- Polarization..... RHCP
- Azimuth Coverage..... 360°
- Impedance.....50Ω
- Output VSWR.....≤1.5
- Axial Ratio..... ≤3dB
- Phase Center Error …….... ＜2mm

LNA Specification

- LNA Gain……...38±2dB
- Noise Figure……..≤2.0dB
- Output VSWR……≤2.0
- Operation Voltage…….3~5.5V
- Operation Current…….≤50mA

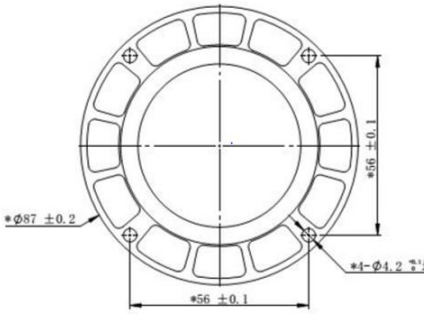
Mechanical Specification

- Dimension……..Φ90*21.8mm
- Connector……SMA female
- Weight……98g

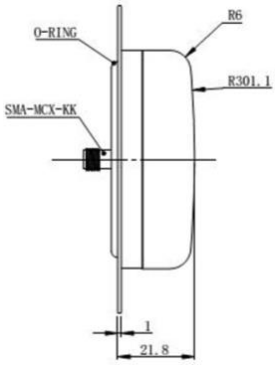
Environment Specification

- Temperature
  - Operation…….-45℃～+70℃
  - Storage…….-55℃～+85℃
- Humidity……...95% No-condensing
- Water & dust-proof …….... IP67

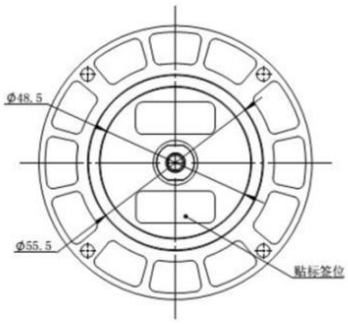
Structure Overview



Top View



Side View



Bottom View

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