

GNSS OEM Antenna

HX-CSX015A

Product Introduction

The HX-CSX015A is a compact, wideband GNSS antenna from Harxon that provides accurate reception for all upper GPS L1\L2\L5、GLONASS L1\L2 and BDS B1\B2\B3 and Galileo E1\E2\E5a\E5b signals and associated augmentation signals(WAAS, EGNOS and MSAS).

The HX-CSX015A has exceptional pattern control, polarization purity and high efficiency in a very compact form factor. Antenna element has high gain and wide beam width to ensure the signal receiving performance of satellite at low elevation angle.

The HX-CSX015A is the smallest, lightest, GNSS antenna for reception of all GNSS constellations. The built-in 111mm circular ground plane should ideally be augmented with a local system ground plane.

OEM antenna are easily detuned by the local environment, Harxon offers custom tuning services for optimized integration into OEM end-user modules.

Technical Features

- GPS L1\L2\L5、GLONASS L1\L2 、BDS B1\B2\B3 and Galileo E1\E2\E5a\E5b bands
- Multi-path rejection board inside can eliminate the multi-path influence to measurement error.
- High stability and high repeatability at phase center
- Very low noise figure
- Ground plane independent
- GIS&RTK applications

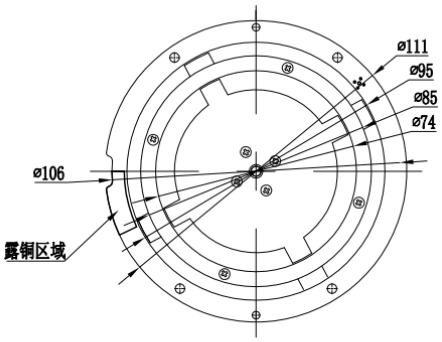


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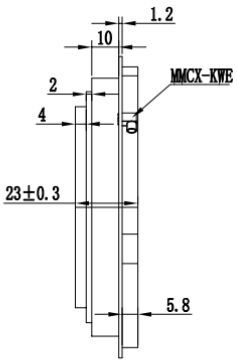
Technical Parameter

Antenna Spec	
Frequency Range	GPS L1/L2/L5 GLONASS L1/L2 BDS B1/B2/B3 Galileo E1\E2\E5ab
Impedance	50ohm
Polarization	RHCP
Axial Ratio	≤3dB
Azimuth Coverage	360°
Output VSWR	≤2.0
Peak Gain	5.5dBi
Phase Center Error	±2mm
LNA Spec	
LNA Gain	40±2dB
Noise Figure	≤2.0dB
Output VSWR	≤2.0
In-band flatness	±2dB
Operation Voltage	3.3~12VDC
Operation Current	≤45mA
Group Delay	≤5ns
Mechanical Spec	
Dimension	φ 111*23mm
Connector	MMCX-50KWE
Environment Spec	
Operating Temp	-40℃～+85℃
Storage Temp	-55℃～+70℃
Humidity	95% No-condensing

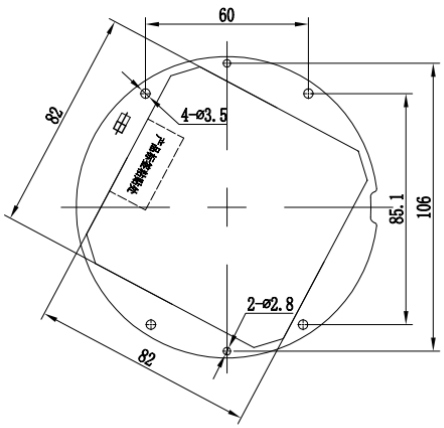
Structural Drawing



Top View



Side View



Bottom View

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