

## Antenna-AX3702

Datasheet

V2.0-170810

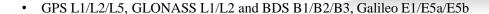
### Mini Survey Antenna

AX3702 is a mini survey antenna. It receives GPS L1/L2/L5, GLONASS L1/L2 and BDS B1/B2/B3, Galileo E1/E5a/E5b frequencies, which can be used in land survey, marine survey, channel survey, seismic monitoring, bridge survey, container operation, agriculture applications, etc. Customers can use the antenna for GPS-only or three-constellations applications.

It has high gain and wide beam width to ensure that the satellite performs well at receiving signals at low elevation angle. The phase center of this antenna remains constant as the azimuth and the elevation angles of the satellites change. Signal reception is unaffected by the rotation of the antenna or satellite elevation, so placement and installation of the antenna can be completed with ease.

# **Key Features:**





- Multi-path rejection board inside eliminates multi-path influence to measurement error.
- Adopts multi feed design to ensure superposition of phase center and geometrical center; and minimize influence to measurement error.
- Water & dust-proof design ensures absolute sealing of kernel parts; capable of long time outdoor operation.
- Lightning proof circuit inside protects LNA from being damaged by surge immunity.
- Very low noise figure.





# **Technical Specifications**

### **Antenna Specification**

•	L1/L2/L5, GLONASS L1/L2 and BDS B Galileo E1/E5a/E5b	
•	Impedance	50ohm
•	Polarization	RHCP
•	Axial Ratio	≤3dB
•	Azimuth Coverage	360°
•	Output VSWR	≤2.0
•	Peak Gain	5.5dBi
•	Phase Center Error	±2mm

### **Environment Specification**

- Storage /Operating Temp.....-45°C $\sim$  +85°C
- Humidity......95% No-condensing

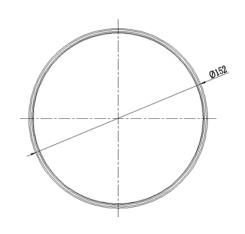
### **LNA Specification**

•	LNA Gain	$\dots$ 40 $\pm$ 2dB
•	Noise Figure	≤2.0dB
•	Output VSWR	≤2.0
•	Operation Voltage	.3.3~12V DC
•	Operation Current	≤45mA
•	Ripple	±2dB

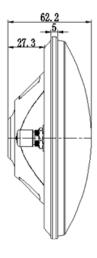
### **Mechanical Specification**

•	Dimension	φ 152*62.2mm
•	Connector	TNC Female
•	Weight	374σ

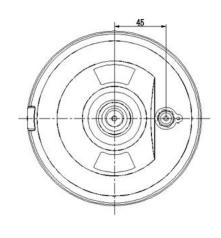
#### **Structure Overview**



Top View



**Side View** 



**Bottom View** 

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