

AT600 Choke Ring Antenna

Choke Ring Antenna

Ver.2022.05.07



Dimension: $\Phi 379.5 \times 296.5 \text{ mm}$

Weight: < 8.5kg

Features

Support BeiDou B1/B2/B3, BeiDou Global B1C/ B2a, GPS L1/L2/L5, GLONASS L1/L2/L3, Galileo E1/E2/E5a/E5b/E6, IRNSS, QZSS, SBAS and L-Band

3D choke ring structure design with excellent multipath rejection capability

Low noise amplifier to improve anti-interference performance

Sub-millimeter level phase center error with outstanding stability and repeatability

High gain for strong low elevation angle signal tracking capability

Superior IP67 water and dust-proof level make it capable for work in harsh environment

AT600 Choke Ring Antenna

The AT600 is a high-performance choke ring antenna that can track GPS, GLONASS, BeiDou, BeiDou Global and Galileo. Featuring high gain, high accuracy, high reliability and full-constellation. Designed for land surveying, precision agriculture, deformation monitoring, CORS and related GNSS applications.

Antenna

BeiDou	B1, B2, B3
BeiDou Global	B1C, B2a
GPS	L1, L2, L5
GLONASS	L1, L2, L3
Galileo	E1, E2, E5a, E5b, E6
IRNSS, QZSS, SBAS and L-Band	
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio (90°)	$\leq 2 \text{ dB}$

LNA

LNA Gain	$\geq 50 \text{ dB}$
Noise Figure	$\leq 1.8 \text{ dB}$
VSWR Output	≤ 2.0
Operation Voltage	3.3 - 12VDC
Operation Current	$\leq 60 \text{ mA}$
Group Delay	< 5ns
Passband Ripple	$\pm 1.5 \text{ dB}$
Gain at Zenith	5dBi
Phase Center Offset	$\leq 1.5 \text{ mm}$

Physical

Dimension	$\Phi 379.5 \times 296.5 \text{ mm}$
Connector	TNC-K
Weight	< 8.5kg

Environmental

Operating Temperature	-40 C to +85 C
Storage Temperature	-55 C to +85 C
Humidity	95% No-condensing
Water and Dust Proof	IP67
Drop	Survive from 1meter drop
Calibration	IGS,NGS

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