

AT500 Choke Ring Antenna

Choke Ring Antenna

Ver.2020.10.14

296.5 mm



379.5 mm

Dimension: $\Phi 379.5 \times 296.5$ mm

Weight: < 8.5 kg

Features

Support GPS L1/L2/L5, GLONASS L1/L2, BeiDou B1/B2/B3, Galileo E1/E5a/E5b/E6, L-Band and SBAS

Low noise amplifier and high gain

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

Strong capability of tracking satellites at low elevation angle

Superior waterproof and dustproof design

AT500

Choke Ring Antenna

The AT500 is a high-performance choke ring antenna that can track GPS L1, L2, L5, GLONASS L1, L2, BeiDou B1, B2, B3, Galileo, L-Band and SBAS. It is specially designed for deformation monitoring, CORS, and related GNSS infrastructure networks.

Antenna

GPS	L1, L2, L5
GLONASS	L1, L2
BeiDou	B1, B2, B3
Galileo	E1, E5a, E5b, E6
SBAS, L-Band	
Nominal Impedance	50 Ω
Polarization	RHCP
Axial Ratio (90°)	≤ 3 dB

LNA

LNA Gain	50 dB $\pm$ 2 dB
Noise Figure	≤ 2 dB
VSWR Output	≤ 2.0
Operation Voltage	3.3 - 12 VDC
Operation Current	≤ 55 mA
Group Delay	< 5 ns
Passband Ripple	± 2 dB
Gain at Zenith	7 dBi
Phase Center Offset	± 1 mm

Physical

Dimension	$\Phi 379 \times 311$ mm
Connector	TNC Female connector
Weight	6.9 kg

Environmental

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

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