

UA91 Choke Ring Antenna

- Multi-constellation and Multi-frequency
- Superior Antenna Phase Center
- Excellent Polar Axis Ratio Performance
- Multipath Suppression

UA91 adopts high-gain broadband antenna to receive GNSS signals such as GPS, BDS, GLONASS, Galileo, QZSS and L-Band. The scheme of multi-stage 3D choke coils with completely symmetrical distribution is adopted to achieve higher phase center stability and excellent anti-multipath interference performance. It has excellent performance that the phase center coincides with the mechanical center.

Product Specification

Antenna Performance		In-band Flatness	± 1.5dB
Frequency	GPS: L1/L2/L5 BDS: B1/B2/B3 GLONASS: G1/G2/G3 GALILEO: E1/E2/E5/E6C QZSS: L1/L2/L5 SBAS L-Band	Out-of-band Suppression	L1 ± 200 MHz >40dBc L2 ± 200 MHz >50dBc
		Differential Transmission Delay	≤ 5ns (L1-L2)
		Antenna Transmission Delay	15ns typically
Polarization	Right-handed circular	Voltage	3.3 - 12 VDC
Axis ratio	≤2dB @Axial	Current	35mA typical
Antenna Gain	> 5dBi @Axial> -3dBi @Elevation angle 20°	Environmental performance	
Out-of-roundness	≤ 1dB @ Elevation angle 20°	Operating Temperature	-55°C ∼ +85°C
Front-to-back Ratio	≥ 30dB	Storage Temperature	-55°C ~ +100°C
Rolloff-factor	≥ 13dB	Humidity	Up to 100%
Phase Center Offset	± 1.5mm	Water/Dust Proof	IP67
Low Noise Amplifier Pe	rformance	Physical	
Frequency Range	1525 ~ 1615 MHz	Dimension	Ф370 mm x H263 mm
	1182 ~ 1278 MHz	Weight	7.7 Kg
Characteristic	50 Ω	Antenna Interface	TNC-F
Impedance		Radome Material	FRP
VSWR	≤ 1.3:1	Base Material	Aluminum-magnesium alloy
Noise Figure	1.6dB Typically @25°	Mount	5/8-11UNC-2B
LNA Gain	40 ± 2dB		



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