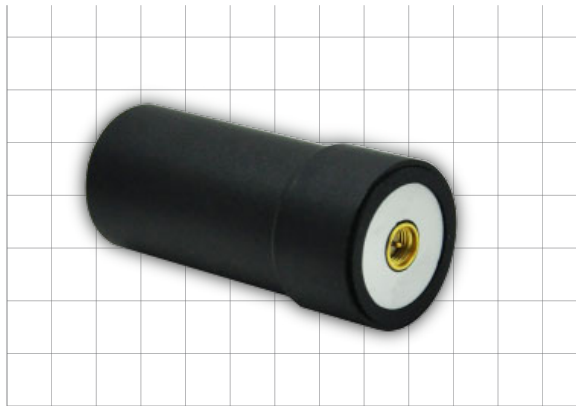


AT190 Helix Antenna

Helix Antenna

Ver.2020.11.30

27.5mm



59 mm

Dimension: $\Phi 27.5 \times 59$ mm

Weight: 25g

Features

GPS L1, L2, L5, GLONASS G1, G2, BeiDou B1, B2, B3 and Galileo E1, E5a, E5b tracking

High gain (3.5dBi) with superior tracking performance at low elevation angle

Compact size and low noise figure

Ground Plane independent

High stability and repeatability at phase center

IP67-level waterproof and dustproof design

AT190 Helix Antenna

The compact-sized AT190 helix antenna is designed with high stability and repeatability at phase center, and its high gain ensures a superior performance even at low elevation angle. Available from single frequency to triple frequency, AT-series Helix antennas are optimal for Unmanned Aerial Vehicle, GIS, RTK and related mobile devices where need high accuracy GNSS positioning.

Antenna

| | |
|-------------------|--------------|
| GPS | L1, L2, L5 |
| GLONASS | G1, G2 |
| Beidou | B1, B2, B3 |
| Galileo | E1, E5a, E5b |
| Nominal Impedance | 50 Ω |
| Polarization | RHCP |
| Axial Ratio (90°) | ≤ 3 dB |

LNA

| | |
|-------------------|--------------|
| LNA Gain | 33 \pm 2dB |
| Noise Figure | ≤ 2 dB |
| VSWR Output | ≤ 2.0 |
| Operation Voltage | 3.3 - 12VDC |
| Operation Current | ≤ 45 mA |
| Passband Ripple | ± 2 dB |
| Gain at Zenith | + 3.5dBi |

Physical

| | |
|-----------|--------------------------|
| Dimension | $\Phi 27.5 \times 59$ mm |
| Connector | SMA male connector |
| Weight | 25g |

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 a 1.5m drop |