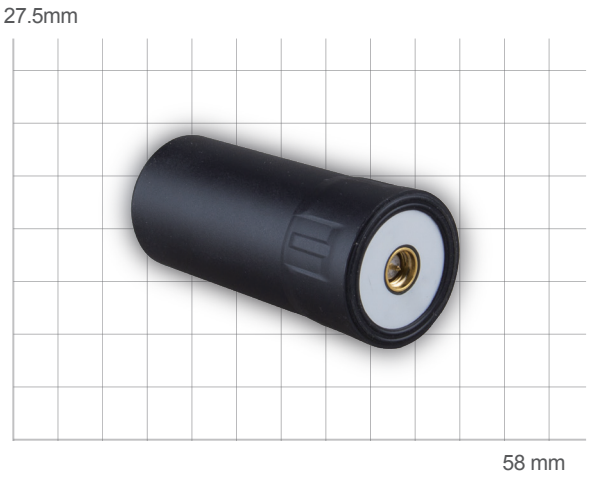
AT160 Helix Antenna

Helix Antenna | Ver.2020.11.30



Dimension: Φ27.5×58mm
Weight: ≤ 30 g

AT160
Helix Antenna

The compact-sized AT160 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.

Features

- Support GPS L1/L2/L5, GLONASS L1/L2, BeiDou B1/B2/B3, BeiDou Global B1C/B2a, Galileo E1/E5a/E5b 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

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

LNA	
LNA Gain	33±2dB
Noise Figure	≤ 1.8 dB
VSWR Output	≤ 1.8
Operation Voltage	3 - 12 VDC
Operation Current	≤42mA
Gain at Zenith	3dBi

Physical	
Dimension	Φ27.5×58 mm
Connector	SMA male connector
Weight	≤ 30 g

Environmental	
Operating Temperature	-40℃ to +70℃
Storage Temperature	-55℃ to +85℃
Humidity	95% No-condensing
Water and Dust Proof	IP67

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