

Choke Ring Antenna

Datasheet



Precise and Durable

Features

- **Optimized for permanent GNSS antenna installations, such as CORS**
- **Robust low-elevation satellite tracking**
- **Choke Ring for minimized multipath**

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PRECISE AND DURABLE FOR PERMANENT INSTALLATIONS

The Choke Ring GNSS antenna design is proven around the world to be effective in reducing the strength of most multipath signals. It also provides outstanding low-elevation satellite tracking and excellent phase center stability.

The Choke Ring antenna is ideal for permanent installations, such as Continuous Operating Reference Stations (CORS). Combined with rugged durability, the Choke Ring GNSS antenna is a long term investment.

COMPREHENSIVE GNSS SUPPORT

The Choke Ring GNSS antenna offers support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, Trimble RTX and SBAS.

- Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo
- Robust low-elevation satellite tracking
- Minimized multipath
- Excellent phase center repeatability
- Pair with the Spectra Precision SP90m GNSS receiver in permanent installations, such as CORS setups
- Signal gain (39 dB) for reliable tracking
- 5/8" - 11 mount point

Choke Ring Antenna Technical Specifications

- Broad GNSS Frequency Tracking Band, including:
 - GPS: L1, L2, L5
 - GLONASS: L1, L2, L3
 - Galileo: E1, E2, E5
 - BeiDou: B1, B2
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and Trimble RTX
- Quality signal tracking
- N type female signal connector
- 5/8" - 11 female threaded mount point
- Powered by GNSS receiver via coaxial cable
- LNA (low noise amplifier) with 39 dB signal gain for reliable tracking in challenging environments and long cable runs

ENVIRONMENTAL

- Operating Temperature: -55 °C to +85 °C (-67 °F to +185 °F)
- Humidity: 100% humidity proof, fully sealed
- Compliance: RoHS

PHYSICAL

- Choke Ring Dimensions: 37.5 cm diameter x 35.1 cm height (14.75 in diameter x 13.8 in height)
- Weight: 4.54 kg (10 lbs)
- Finish: UV resistant Polyurethane Enamel, white

ELECTRICAL

- Input Voltage: 4.2 V DC to 15 V DC
- Power Handling: 1 W
- Signal Gain: 39 dB



The Choke Ring Antenna can be paired with the Spectra Precision SP90m GNSS receiver in permanent installations, such as CORS setups.

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