

PolaNt Choke Ring B3/E6

High precision geodetic choke ring antenna



Septentrio's PolaNt Choke Ring B3/E6 is a high precision geodetic multi-frequency multi-constellation choke ring antenna for use with Septentrio's PolARx family of high performance multiple-frequency GNSS reference receivers. It supports current and planned GNSS signals including BeiDou B3 and Galileo E6.

Our PolaNt Choke Ring antenna incorporates low-noise amplifiers, powerful filters for out-of-band interference rejection combined with Superior multipath rejection and a high phase centre stability.

It is a competitive alternative for Dorne & Margolin based antennas and is designed for high-end applications and reference station operations. The sealed radome allows reliable signal reception even in difficult conditions

Key Features

- ▶ **Support current and planned GNSS signals from GPS, GLONASS, Galileo, BeiDou, IRNSS, QZSS and SBAS**
- ▶ **BeiDou B3 and Galileo E6 are supported**
- ▶ **High phase center stability**
- ▶ **IGS calibration available**

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PERFORMANCE

GNSS Frequencies

| | |
|---------|--------------|
| L-Band | |
| GPS | L1, L2, L5 |
| GLONASS | L1, L2, L3 |
| Galileo | E1, E5ab, E6 |
| BeiDou | B1, B2, B3 |
| IRNSS | L5 |

Polarization

RHCP

Axial Ratio

3 dB max

Radiation Coverage

| | |
|-----------------------------------|-----------|
| $\theta = 0^\circ$ | 6.0 dBic |
| $0^\circ < \theta < 75^\circ$ | -2.0 dBic |
| $75^\circ \leq \theta < 80^\circ$ | -3.0 dBic |
| $80^\circ \leq \theta < 85^\circ$ | -4.0 dBic |
| $\theta = 90^\circ$ | -5.0 dBic |

Amplifier

| | |
|----------------|-----------------|
| Gain | 39 ± 2 dB |
| Noise Figure | 2.6 dB max |
| Input Voltage | +4.2 to +15 VDC |
| Current | 65 mA (typ) |
| Power handling | 1 W |
| Impedance | 50 Ω |
| VSWR | $\leq 2.0:1$ |

PHYSICAL AND ENVIRONMENTAL

Finish UV Resistant Polyurethane Enamel (white)

Weight 4.98 kg (11 lb)

Diameter 376 mm (14.8 in)

Connector N-Type Female

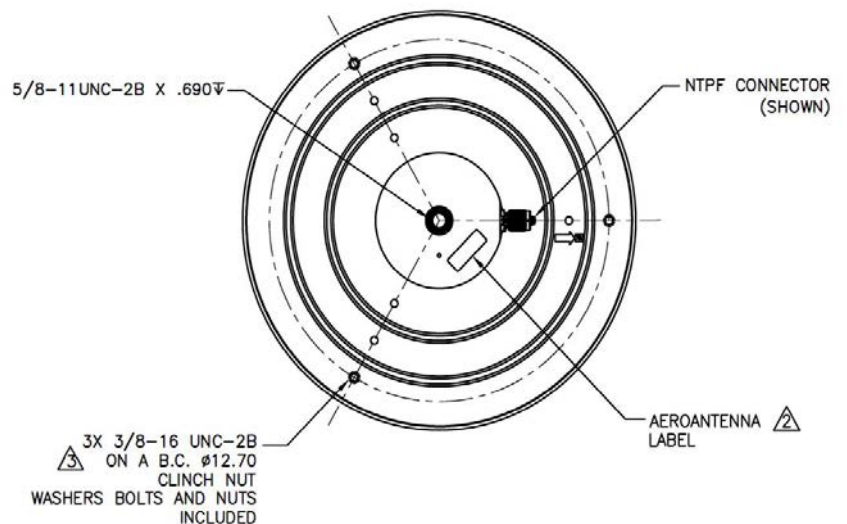
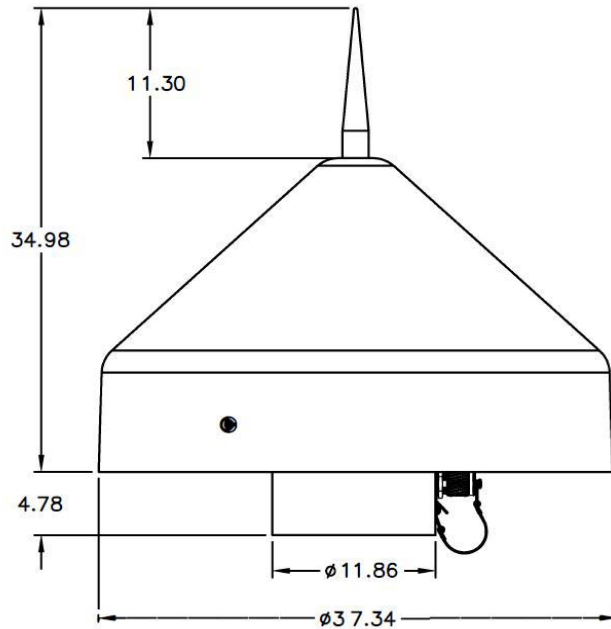
Operating Temperature -55 °C to +85 °C
(-67 °C to +185 °F)

Designed to DO-160C

IGS Reference SEPCHOKE_B3E6

DIMENSIONS

Dimensions in centimeters (cm)



SSNDS 09/2016/50 - Specifications subject to change without notice. Certain features and specifications may not apply to all models. © 2016 Septentrio. All rights reserved.

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