

Ashtech Choke Ring Antenna



- *Billet Aluminum Choke Ring Antenna with Dome & Margolin Element*
- *Hemispherical Radome*



ASHTECH LNA AND DORNE & MARGOLIN ELEMENT

Overview

The Ashtech Choke Ring antenna is machined from a single billet of 6061-T6 aluminum. This choke ring antenna retains the original IGS design. The choke ring includes a Dorne & Margolin C146-10 vertical dipole element. The Ashtech choke ring antenna provides proven technology and reliability and is the standard for high-end reference applications.

PROVEN DESIGN

The Ashtech choke ring is a proven design and is used in dozens of high-end networks around the world. These networks include the Southern California Integrated GPS Network (S.C.I.G.N.), the Ordnance Survey in the United Kingdom and the Chinese State Seismological Bureau (CSSB). The antenna consists of a ground plate with five concentric ring structures, a Dorne & Margolin C146-10 dipole element and a proprietary low-noise amplifier (LNA). The choke ring design reduces ground-based multipath thereby improving the quality of the GPS observables. The Ashtech choke ring antenna is machined from a single billet of aluminum.

ASHTECH LNA AND DORNE & MARGOLIN ELEMENT

The Ashtech proprietary low-noise amplifier (LNA) exhibits low-noise performance. It operates over a 5 to 15 volt DC antenna supply, and includes RF filtering for excellent out-of-band interference rejection.

GPS INDUSTRY LEADER

Ashtech Reference Station products continue to raise the industry standard for high-precision continuous operation. The Ashtech choke ring antenna combines the field tested IGS design with advanced GPS choke ring technology at an affordable price.

Thales Navigation

Corporate Headquarters, Santa Clara, USA +1 408 615 5100 • Fax +1 408 615 5200

In Washington, D.C. +1 703 476 2212 • Fax +1 703 476 2214

In South America +56 2 234 56 43 • Fax +56 2 234 56 47

Email sales@ashtech.com

European Sales Headquarters, France +33 2 28 09 38 00 • Fax +33 2 28 09 39 39

In Germany +49 81 6564 7930 • Fax +49 81 6564 7950

In Russia +7 095 956 5400 • Fax +7 095 956 5360

In The Netherlands +31 78 61 57 988 • Fax +31 78 61 52 027

In The U.K. +44 1993 8867 66 • Fax +44 1993 8867 67

Email info@thales-navigation.com

Website www.ashtech.com • www.thalesnavigation.com

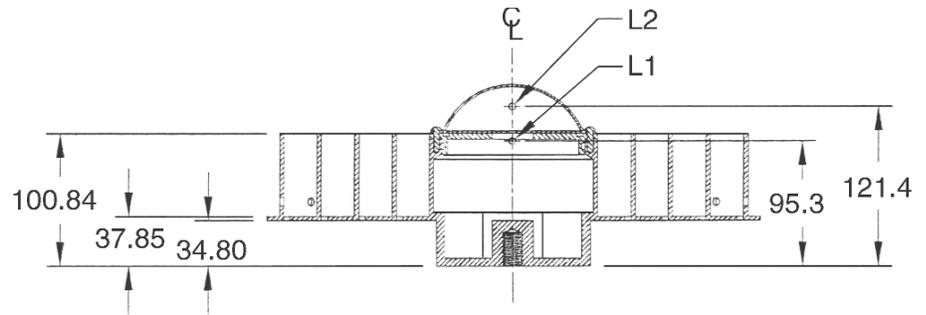


Ashtech Choke Ring Antenna Specifications

Standard Features

Billet Forged Choke Ring Antenna

- Billet aluminum construction, machined from a single piece of 6061-T6 aluminum
- Accepted IGS design
- Dorne & Margolin C146-10 element
- Conductive gaskets for antenna stability in humid conditions
- North marker for back-sighting
- Gold alodine anti-oxidation coating
- Proprietary Ashtech low-noise amplifier (LNA), 5 to 15 volt operation



The Ashtech Choke Ring is IGS compliant and provides superior multipath rejection. (Dimensions are in millimeters).

Choke ring Antenna Specifications

Temperature

- Operating -55°C to +65°C
- Storage -55°C to +75°C

Humidity 100%

Frequency L1 1575.42 ± 10.23 Mhz
L1 1227.60 ± 10.23 Mhz

Polarization RHCP

Antenna Gain +5dBic @ ZENITH
-4dBic @ 5° ELEVATION

DC Power 5-15V, 45mA TYP

LNA Gain L1 38dB ± 3dB

LNA Gain L2 39dB ± 3dB

Output 50 OHM, TYPE N

Weight 4.7 kg (10.5 lbs)

Specifications are subject to change without notice.

©2002 Thales Navigation.

Ashtech® is a registered trademark of Thales Navigation.
All other product and brand names are trademarks or registered trademarks of their respective holders. (4.02)

