

26 dB High Rejection Antenna with Enhanced Narrow Band Filtering

GNSS/GPS Antennas – Timing

GPS-TMG-HR-26N Series



Description

Timing reference antenna featuring narrow band and high rejection filtering for GPS applications facing severe interference.

Technologies

- GPS L1

Features

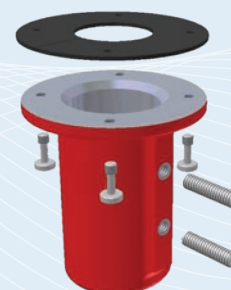
- 26 dB amplifier
- Superior filtering and out-of-band rejection
- Unique radome sheds water, ice, and minimizes bird perching



GPS-TMG-HR-26N



GPS-TMG-HR-26NCM



GPS-TMG-MNT-R

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The GPS-TMG-HR-26 series timing reference antennas feature narrow band, high rejection filtering to support long-lasting, trouble-free deployments in congested cell-site applications with severe interference around the GPS frequency. The proprietary quadrifilar helix design, coupled with multi-stage filtering provides superior out-of-band rejection and lower elevation pattern performance than traditional patch antennas. The unique proprietary radome shape sheds water and ice, and eliminates bird perching problems.

The antenna may be purchased by itself or with pipe mounting hardware. Custom models or site kits options are also available. The antenna label and collar mount are color coded red for differentiation purposes.

Features

- High performance: 26 dB amplifier
- Superior filtering – Multi-stage, narrow band, high rejection filtering
- Unique design – Quadrifilar helix design and multi-stage filtering provide effective out-of-band rejection and lower elevation pattern performance than traditional patch antennas
- Weatherproof – Unique radome shape sheds water and ice, and eliminates problems associated with bird perching

Certifications



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Standard Configuration

Model	Connector	Mount	Radome
GPS-TMG-HR-26N	N Female (one - bottom fed)	Antenna Only. Does not include mounting hardware. Includes red powder coated collar mount (GPS-TMG-MNT-R)	Color: White
GPS-TMG-HR-26NCM			

Electrical Specifications - GNSS Antenna (All Models)

Specification	Measurement
Frequency Range	1575.42 ± 10 MHz
LNA Gain	26.5 dB ± 3 dB
Element Gain	3.5 dBic
Out-of-Band Rejection	≥ 65 dB @ 1559 MHz ≥ 65 dB @ 1625 MHz
VSWR	≤ 1.5:1 (typical)
Noise Figure	≤ 4.0 dB @ +25°C (typ.) ≤ 4.5 dB @ +25°C (max.)
Current Draw	≤ 40 mA @ 5V
DC Voltage	Operating: 3.3- 12.0 V (regulated) Survival: 24 V
Nominal Impedance	50 ohms
Polarization	Right hand circular

Mechanical and Environmental Specifications - All Models

Specification	Measurement
Dimensions	5.0" H x 3.2" D (126 H x 81 mm)
Weight	0.6 lbs (0.3 kg)
Housing Material	ASA
Temperature Range	- 40°C to + 85°C
Humidity	95%

* (NF) indicates optional N Female connector.

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