

G5Ant-2XMNXX series antenna

Magnetic mount GNSS antenna

The G5Ant-2XMNXX product family is a small-footprint, multi-frequency antenna for assured Global Navigation Satellite Signal (GNSS) signal reception. This Antcom "G5" antenna operates in five frequency bands and includes support for GLONASS L1, GPS L1, L-Band, GLONASS L2 and GPS L2. Bottom-mount and magnetic mount features are provided for easy integration into your application. The RF connector is mounted on the side of the enclosure for quick access.

The product family is offered in passive and active (amplified) configurations. The active configurations offer 2-stage integrated bandpass filtering for high out-of-band rejection and limiter diodes to protect sensitive receiver electronics. The passive configurations are best suited to applications where the antenna is located close to the GNSS receiver and offer the lowest insertion loss for minimizing the noise figure of your system.

Antcom can customize this product family to meet your specific requirements. Please contact us for more information about customization options.

G5Ant-2XMNXX

LNA Gain
 A = 33 dB
 A4 = 40 dB
 P = Passive

Color (per AMS-STD-595)
 1 = Gloss White #17925
 2 = Lusterless Gray #36320
 3 = Camo Green #34094
 4 = Lusterless Black #37038
 5 = Desert Tan #33446

Connector
 S = SMA
 T = TNC



Features

- Multi-frequency, multi-constellation for assured GNSS reception
- Magnetic mount or bottom mount
- Passive or active (amplified) configurations available
- DC power input through RF connector
- Connector options available
- Paint color options available

Benefits

- Ruggedized enclosure designed for easy integration
- Many standard options available, and customizable if required

Electrical

Frequency range

GPS L1	1575.42 ± 15 MHz
GPS L2	1227.60 ± 12 MHz
GLONASS L1	1609 ± 7.0 MHz
GLONASS L2	1252.50 ± 7.5 MHz
Galileo E1	1575.42 ± 17 MHz
Galileo E6	1561.098 ± 10 MHz
BeiDou B1	1561.098 ± 10 MHz
BeiDou B2	1207.14 – 1217.14 MHz
L-Band	1545 – 1610 MHz

VSWR <2.0:1

Impedance 50 ohms

Polarization RHCP

Mechanical and environmental

Weight (typical) 5.77 oz (164 g)

Temperature -55°C to +85°C

Altitude 70,000 ft

Random vibration >30 G_{rms}

Typical LNA performance

LNA gain

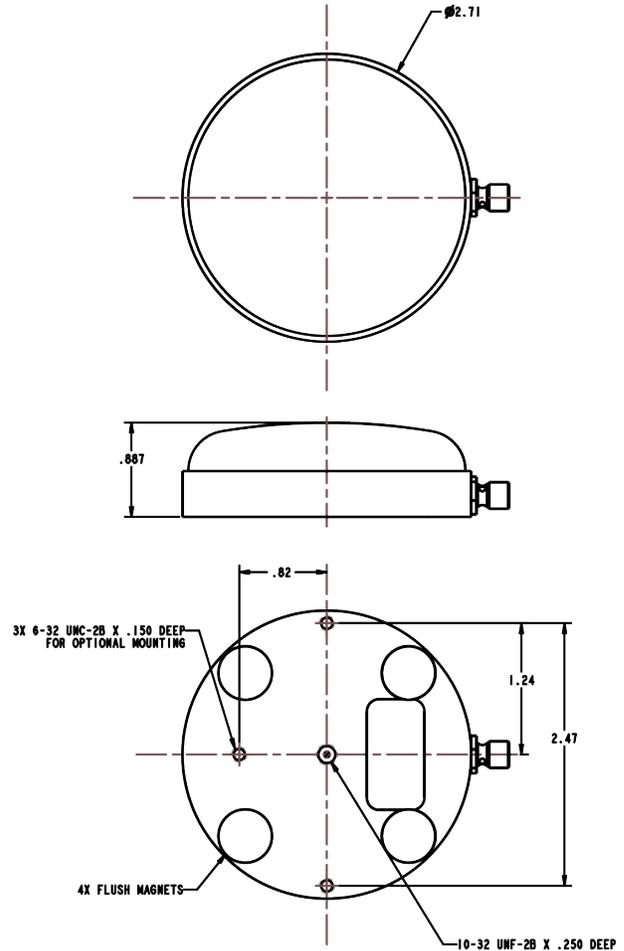
A option	33 dB
A4 option	40 dB
P option	Passive

LNA noise figure 3.5 dB

LNA P1dB out +13 dBm

Input power +3.8 to +15.0 VDC
<70 mA

Power handling 1 Watt CW



Contact Hexagon | Antcom

sales.ant.ap@antcom.com Phone: 1-310-782-1076 | Fax: 1-310-782-1086

For the most recent details of this product: antcom.com

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