

G5Ant-53XXX series antenna

GNSS for survey and timing

The G5Ant-53XXX product family is a 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 GPS L1, L2, GLONASS L1, L2 and L-Band. This product is designed for pipe-mount installation for applications such as surveying and precise timing.

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. This offers the lowest insertion loss for minimizing the noise figure of your system.

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



Features

- Multi-frequency, multi-constellation for precise position and timing
- Passive or active (amplified) configurations available
- DC power input through RF connector
- Connector options available
- Paint color options available

Benefits

- Designed for easy pipe mount installation and setup
- Well suited to survey and timing applications
- Multi-frequency GNSS coverage for accuracy

G5Ant-53XXX

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
 M = MCX
 MM = MMCX
 T = TNC
 TB = TNC bulkhead
 N = Type N
 NB = Type N bulkhead

Electrical

Frequency range

GPS L1	1575.42 ± 15 MHz
GPS L2	1227.60 ± 12 MHz
GLONASS L1	1609 ± 7.0 MHz
GLONASS L2	1242 – 1249 MHz
Galileo E1	1575.42 ± 17 MHz
Galileo E6	1561.098 ± 10 MHz
BeiDou B1	1561.098 ± 10 MHz
L-Band	1545 – 1610 MHz

VSWR

<2.0:1

Impedance

50 ohms

Polarization

RHCP

Mechanical and environmental

Weight (typical) 14.5 oz (411 g)

Temperature -55°C to +85°C

Altitude 70,000 ft

Random vibration >30 G_{rms}

Typical LNA performance

LNA gain

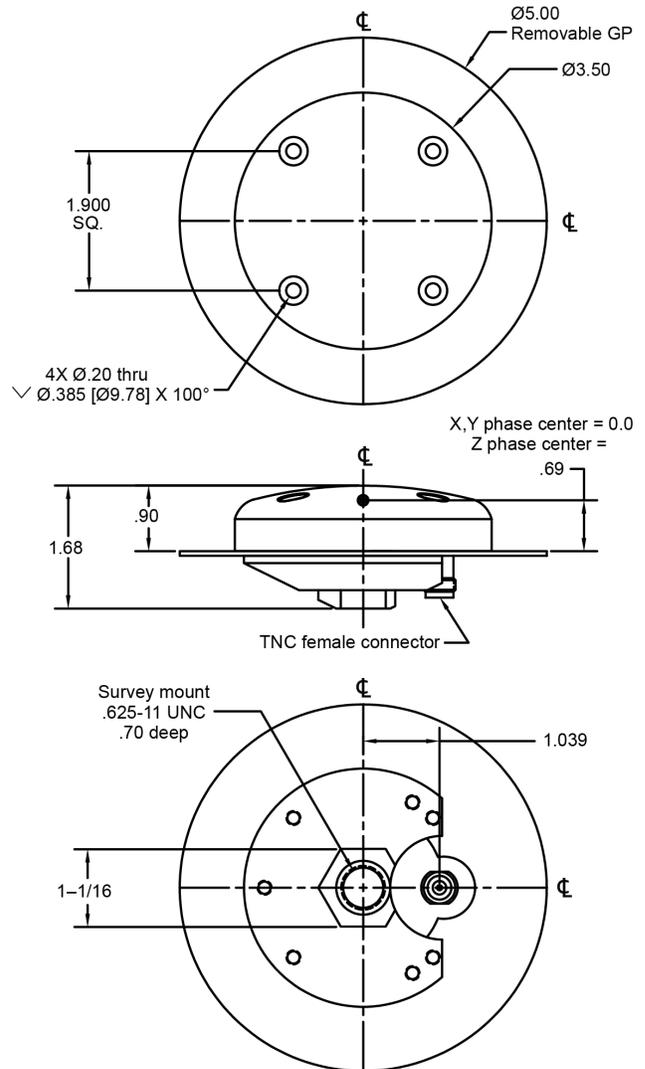
A option	33 dB
A4 option	40 dB
P option	Passive

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



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

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