

# G5Ant-42XXX series antenna

## ARINC footprint GNSS antenna

The G5Ant-42XXX 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 GLONASS L1, GPS L1, L-Band, GLONASS L2 and GPS L2. The baseplate is designed to be compatible with ARINC 743 mounting hole and footprint requirements. An O-ring seal between the antenna and your platform ensures easy installation.

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 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 assured GNSS reception
- ARINC 743 compatible mounting holes and footprint
- Passive or active (amplified) configurations available
- DC power input through RF connector
- Connector options available
- Paint color options available

### Benefits

- Easy design into new platforms or retrofit into existing platforms
- Multi-frequency GNSS coverage to support precision applications

## G5Ant-42XXX

**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
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)

8.14 oz (231 g)

**Temperature**

-55°C to +85°C

**Altitude**

70,000 ft

**Random vibration**

>30 G<sub>rms</sub>

**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**

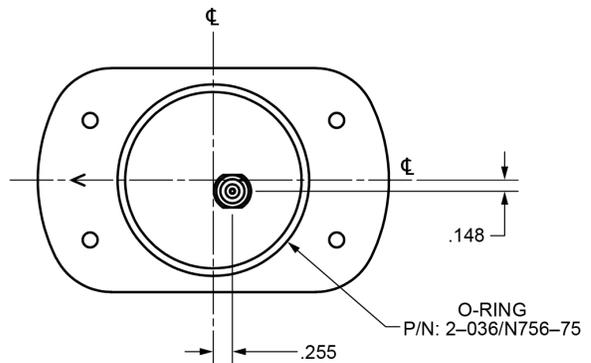
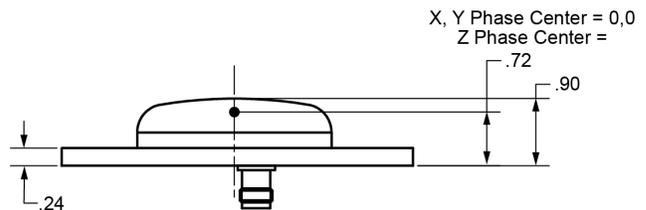
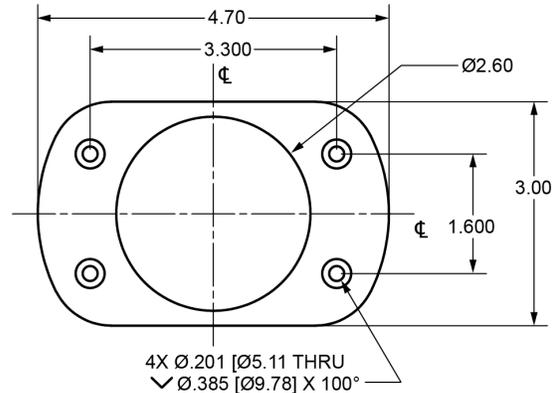
+13 dBm

**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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