



G5ANT-42XXX-A ANTENNA FAMILY

ARINC Footprint GNSS with Connector on Centerline

The G5Ant-42XXX-A product family is a multi-frequency antenna for assured Global Navigation Satellite Signal (GNSS) reception. This G5 antenna operates in five frequency bands and includes support for GLONASS L1, GPS L1, L-Band, L2 GLONASS and L2 GPS. The baseplate is compatible with ARINC 743 mounting hole and footprint requirements. An O-ring seal between the antenna and your platform ensures easy installation. The "-A" version of G5Ant-42XXX locates the connector output along the centerline of the product baseplate.

This product available 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 offers the lowest insertion loss to minimize 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.

BENEFITS

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

FEATURES

- Multi-frequency, multi-constellation for assured GNSS
- 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



OPTIONS

COLOR	<ul style="list-style-type: none">• Gloss White• Lusterless Gray• Camo Green• Lusterless Black• Desert Tan
CONNECTOR	<ul style="list-style-type: none">• S: SMA• T: TNC
LNA GAIN	<ul style="list-style-type: none">• With 33 dB LNA• With 40 dB LNA• Without LNA

ELECTRICAL

Frequency Range:	
L2 GPS B2 BeiDou	1227.60 ± 12 MHz 1207.14-1217.14 MHz
L2 GLONASS	1252.50 ± 7.5 MHz
L-Band E6 Galileo B1 BeiDou	1545 -1610 MHz 1561.098 ± 10 MHz 1561.098 ± 10 MHz
L1 GPS E1 Galileo	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz
L1 GLONASS	1609 ± 7.0 MHz
VSWR	<2.0:1
Impedance	50 ohms
Polarization	RHCP

MECHANICAL & ENVIRONMENTAL

Designed to:

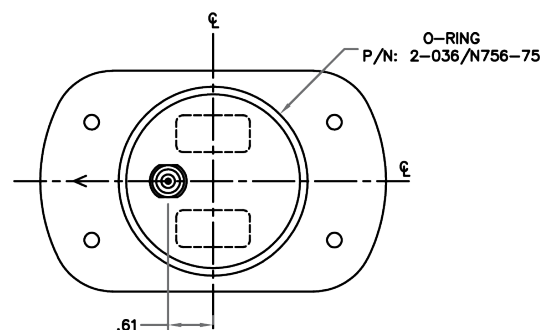
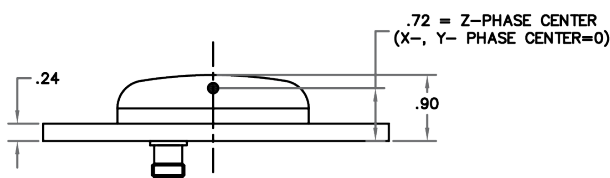
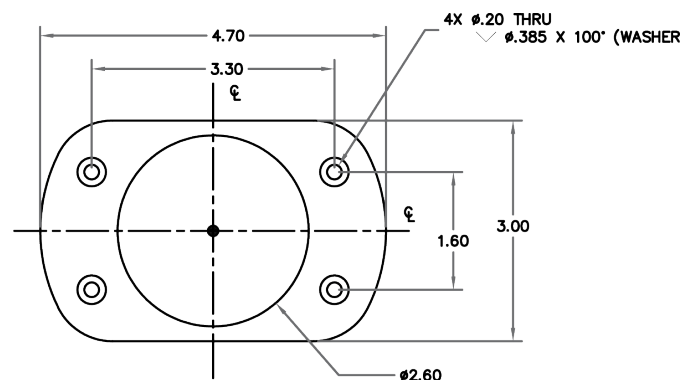
Weight	8.14 oz
Temperature	-55°C TO +85°C
Altitude	70,000 ft
Vibration	>30 Grms

TYPICAL LNA PERFORMANCE

LNA Gain	See Options Table
LNA Noise Figure	3.5 dB
LNA P1dB Out	+13 dBm
LNA DC Power	(3.8 - 15) V <70 mA

LIMITING & FILTERING

Power Handling	1 Watt CW
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PART NUMBER DECODER

G5Ant-42XXX-A

LNA Gain

A = With 33 dB LNA
A4 = With 40 dB LNA
P = Without LNA

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

CONTACT ANTCOM

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