

42GNSSX-XX-X series antenna

ARINC footprint multi-frequency GNSS antenna

The 42GNSSX-XX-X is a multi-frequency antenna for assured positioning, navigation and timing (APNT) reception. This wideband antenna operates across GPS, GLONASS, Galileo and BeiDou frequencies for true Global Navigation Satellite System (GNSS) reception.

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 product family is available in passive and active (amplified) configurations. The active circuitry is designed to support a wide range of input voltages with low current consumption. The passive design is ideal for installations where the antenna is located close to the receiver.

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

Part number decoder

42GNSSX-XX-X

LNA Gain
 AV = 33 dB
 P = Passive

Connector
 M = MCX
 MM = MMCX
 N = Type N
 S = SMA
 T = TNC
 TB = TNC bulkhead

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



Features

- Maximum multi-frequency, multi-constellation coverage
- 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

- Standard ARINC 743 mounting footprint for easy installation
- Multi-frequency GNSS coverage for assured PNT

Electrical

Passband

Lower passband	1160 – 1252 MHz
Upper band	1539 – 1610 MHz

Frequency range

GLONASS L1	1603.6875 ± 5.625 MHz
GPS L1, Galileo E1, BeiDou B1, NavIC L1	1575.42 ± 15 MHz
L-Band corrections	1539-1559 MHz
GLONASS L2	1247.3125 ± 4.375 MHz
GPS L2	1227.60 ± 15 MHz
Galileo E5b, BeiDou B2/B2b	1207.14 ± 10.23 MHz
GPS L5, Galileo E5a, BeiDou B2a, Navic L5	1176.45 ± 12 MHz

VSWR

<2.0:1

Impedance

50 ohms

Polarization

RHCP

Mechanical and environmental

Weight (typical) 9.7 oz (275 g)

Temperature -55°C to +85°C

Altitude 70,000 ft

Random vibration >30 G_{rms}

Typical LNA performance

LNA gain

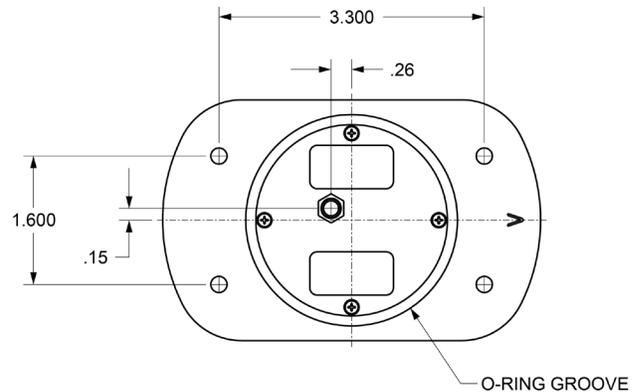
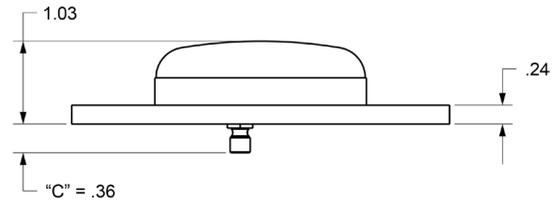
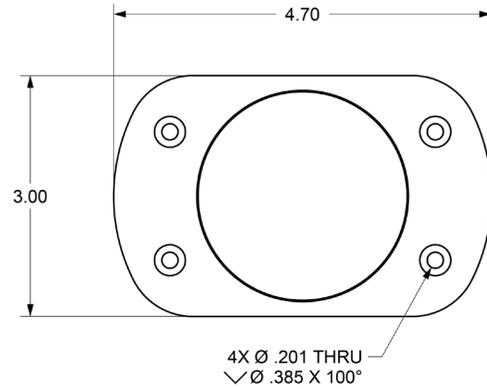
AV option	33 dB
P option	Passive

LNA noise figure 3 dB

LNA P1dB out 5 dBm

Input power +2.7 to +15.0 VDC
<40 mA

Power handling 1 Watt CW



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