

G3Ant-3XXX series antenna

FRPA-footprint GNSS antenna

The G3Ant-3XXX product family receives Global Navigation Satellite System (GNSS) signals through multi-constellation reception. This G3 antenna includes coverage across three frequency bands: GLONASS L1, GPS L1 plus Galileo E1 and L-Band plus BeiDou B1. The Fixed Reception Pattern Antenna (FRPA) mounting footprint provides easy integration onto new and existing platforms. The rugged enclosure can withstand harsh environmental conditions seen in military, aerospace and other applications.

The product family is available in passive and active (amplified) configurations. The active configurations include two-stage ceramic and surface acoustic wave (SAW) filtering for sharp band edges and linearity within the GNSS bands. The upper and lower frequency bands are separately amplified and filtered to ensure operation in high ambient interference environments. The passive configurations are best suited to applications where the antenna is positioned close to the GNSS receiver.

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



Features

- GPS L1, Galileo E1, GLONASS L1, BeiDou B1 and L-Band support
- FRPA footprint with thru-hole mount or bottom-mount
- High filtering for out-of-band rejection
- Passive or active (amplified) configurations available
- Active configurations offer 2-stage integrated bandpass filtering with diode limiters

Benefits

- Standard FRPA mounting footprint for easy integration
- Multi-constellation GNSS coverage for assured position, navigation and timing

G3Ant-3XXX

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
 B = BNC
 N = Type N

Electrical

Frequency range

GPS L1	1575.42 ± 15 MHz
GLONASS L1	1609 ± 7.0 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)

9.1 oz (258 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

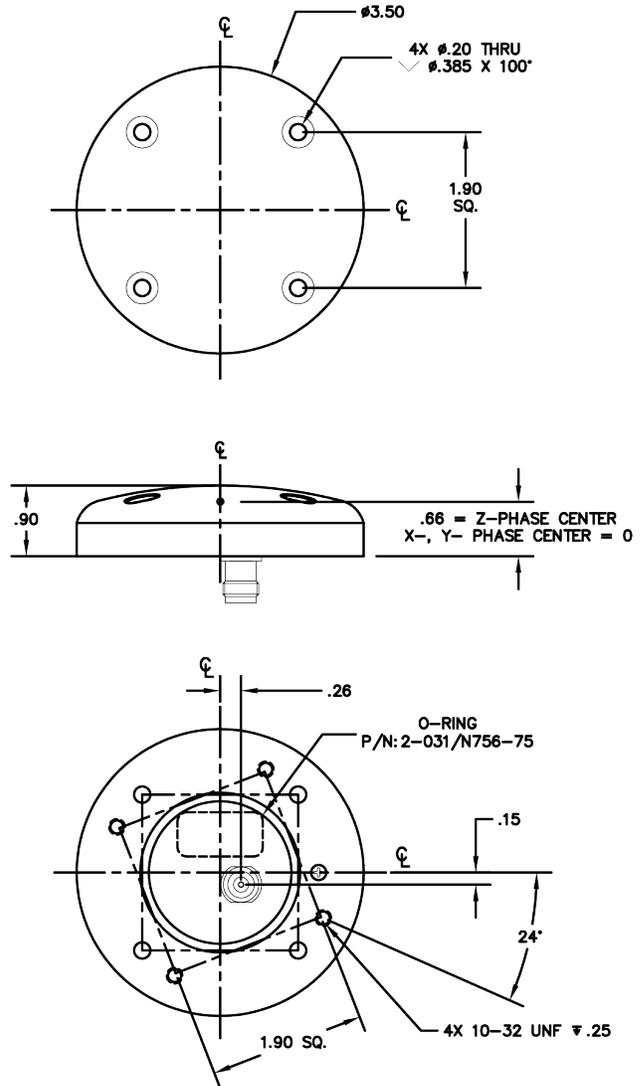
+13 dBm

Input power

+3.8 to +15.0 VDC
<40 mA

Power handling

1 Watt CW



Contact Hexagon | Antcom

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