G5ANT-3XXX ANTENNA FAMILY

Penta-Band GNSS FRPA

The G5Ant-3XXX product family is a small-footprint, multi-frequency antenna that provides assured Global Navigation Satellite Signal (GNSS) signal reception. The Antcom “G5” antenna operates in five frequency bands and includes support for GLONASS L1, GPS L1, L-Band, L2 GLONASS and L2 GPS. These antennas include the standard “Fixed Reception Pattern Antenna” (FRPA) mounting footprint for 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 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

- Standard FRPA mounting footprint for easy platform integration
- Many standard options available, and customizable if required

FEATURES

- Multi-frequency, multi-constellation for assured GNSS reception
- FRPA footprint with thru-hole mount or bottom-mount
- Passive or active (amplified) configurations available
- Active configurations offer 2-stage integrated bandpass filtering with diode limiters
- Connector options available
- Paint color options available

OPTIONS

COLOR	• Gloss White • Lusterless Gray • Camo Green • Lusterless Black • Desert Tan
CONNECTOR	• S: SMA; B: BNC • M: MCX; MM: MMCX • N: N: NB:N-Bulkhead • T, TNC: TB: TNC-Bulkhead
LNA GAIN	• With 33 dB LNA • With 40 dB LNA • Without Passive

ELECTRICAL

Frequency Range:	
L2 GPS	1227.60 ± 12 MHz
L2 GLONASS	1242 -1249 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:

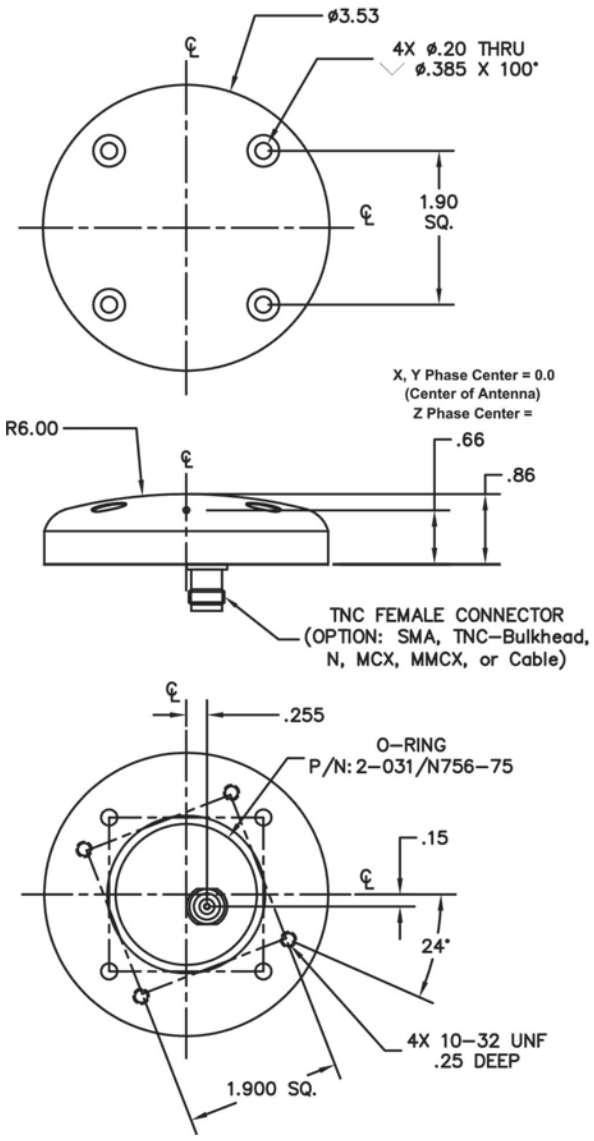
Weight	9.3 oz
Temperature	-55°C TO +85°C
Altitude	70,000 ft
Vibration	> 30 Grms

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



PART NUMBER DECODER

G5Ant-3XXX

LNA Gain
A = With 33 dB
A4=With 40 dB
P = Without 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; B: BNC
M = MCX; MM: MMCX
N = N: NB: N-Bulkhead
T = TNC; TB: TNC-Bulkhead

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