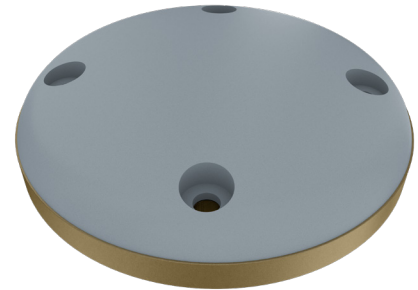


3G1215X-XX-X series antenna

GPS L1/L2 FRPA

The 3G1215X-XX-X antenna product family provides Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. There are multiple mount options available for this Fixed Reception Pattern Antenna (FRPA) footprint to allow for optimum integration on your platform. Rugged enclosures enable these antennas to withstand harsh environmental conditions seen in military, aerospace, and other applications.

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



Features

- GPS L1/L2 with M-Code support
- FRPA footprint with multiple mount options including flush mount, magnetic flush mount, and bottom connector
- Passive or active (amplified) configurations available
- Active configurations offer 2-stage integrated bandpass filtering with diode limiters
- Paint color options available

Part number decoder

3G1215X-XX-X

LNA Gain
AV = 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
M = MCX
MM = MMCX
N = Type N
S = SMA
T = TNC
TB = TNC bulkhead

Benefits

- Rugged GPS L1/L2 antenna for assured position, navigation, and timing (PNT)
- Standard FRPA mounting footprint allows easy platform integration
- Various standard options available and customizable options are available for order

Electrical

Frequency range

GPS L1	1575.42 ± 12 MHz
GPS L2	1227.60 ± 12 MHz

VSWR

<2.0:1

Impedance

50 ohms

Polarization

RHCP

Mechanical and environmental

Weight (typical)

6.6 oz (187 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
A4 option	40 dB
P option	Passive

LNA noise figure

<4 dB

LNA P1dB out

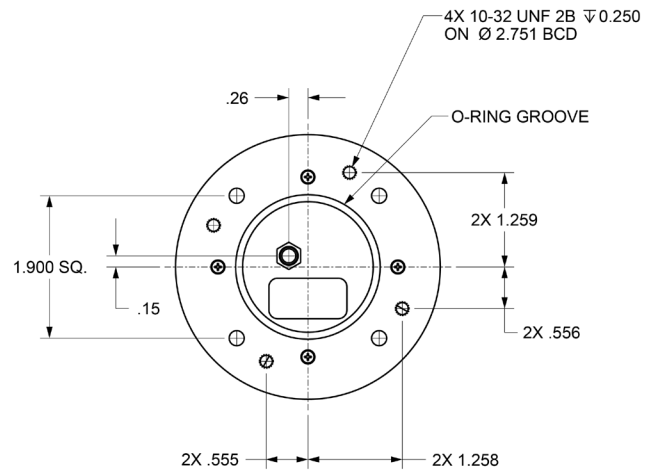
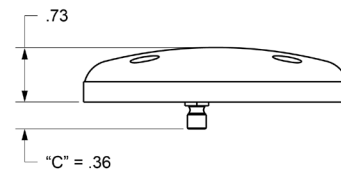
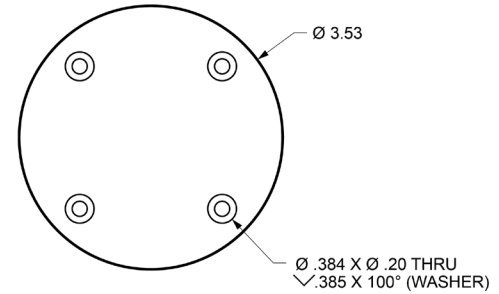
7 dBm

Input power

+2.7 to +15.0 VDC
<40 mA

Power handling

1 Watt CW



Contact Hexagon | Antcom

sales.ant.ap@antcom.com Phone: 1-310-782-1076 | Fax: 1-310-782-1086

For the most recent details of this product: antcom.com

This document and the information contained herein are provided AS IS and without any representation or warranty of any kind. All warranties, express or implied, are hereby disclaimed, including but not limited to any warranties of merchantability, non-infringement, and fitness for a particular purpose. Nothing herein constitutes a binding obligation. The information contained herein is subject to change without notice. Antcom is a trademark of Hexagon AB and/or its subsidiaries and affiliates, and/or their licensors. All other trademarks are properties of their respective owners.

© Copyright 2025 Hexagon AB and/or its subsidiaries and affiliates. All rights reserved. A list of entities within the Hexagon Autonomy & Positioning division is available at <https://hexagon.com/company/divisions/autonomy-and-positioning>.