1.2G1215X-XX-X-NF ANTENNA FAMILY
Mini GPS L1/L2 Antenna for Bottom Mount Installation

The 1.2G1215X-XX-X-NF receives Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. This product family uses the mini 1.2G form factor for bottom mount installation using four 2-56 threaded screws. The size and weight of this antenna are minimized by excluding the external mounting flanges.

The product family is available in passive and active (amplified) configurations. The amplified configuration is best suited to applications with a long cable between the antenna receiver, while the passive configuration is 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.

BENEFITS

• Military-grade GPS L1/L2 reception
• Ultra-small and lightweight enclosure

FEATURES

• GPS L1/L2 with M-Code support
• Mini 1.2G product form factor
• Passive or active (amplified) configurations available

OPTIONS

COLOR
• Gloss White
• Lusterless Gray
• Camo Green
• Unpainted Black
• Desert Tan

CONNECTOR
• SMA
• MMCX
• SSMP
• TNC
• and more

LNA GAIN
• With 27 dB LNA
• Without LNA

*These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.*
**ELECTRICAL**

<table>
<thead>
<tr>
<th>Frequency Range:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>L1 GPS</td>
<td>1575.42 ± 12 MHz</td>
</tr>
<tr>
<td>L2 GPS</td>
<td>1227.60 ± 12 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>&lt; 2.0:1</td>
</tr>
<tr>
<td>Impedance</td>
<td>50 ohms</td>
</tr>
<tr>
<td>Polarization</td>
<td>RHCP</td>
</tr>
</tbody>
</table>

**MECHANICAL & ENVIRONMENTAL**

Designed to:

<table>
<thead>
<tr>
<th>Weight</th>
<th>1.44 oz (Typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-55°C TO +85°C</td>
</tr>
<tr>
<td>Altitude</td>
<td>70,000 ft</td>
</tr>
<tr>
<td>Vibration</td>
<td>&gt; 30 Grms</td>
</tr>
</tbody>
</table>

**TYPICAL LNA PERFORMANCE**

<table>
<thead>
<tr>
<th>LNA Gain</th>
<th>See Options Table</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>LNA DC Power</td>
<td>(2.8 - 12) V</td>
</tr>
<tr>
<td></td>
<td>&lt;35 mA</td>
</tr>
</tbody>
</table>

**LIMITING & FILTERING**

<table>
<thead>
<tr>
<th>Power Handling</th>
<th>1 Watt CW</th>
</tr>
</thead>
</table>

**PART NUMBER DECODER**

1.2G1215X-XX-X-NF

**Color (PER FED-STD-595B)**

1 = Gloss White #17925
2 = Lusterless Gray #36320
3 = Camo Green #34094
4 = Unpainted Black
5 = Desert Tan #33446

**Connector**

S = SMA
M = MCX
MM = MMCX
T = TNC
L-RM = Right Angle Male Lemo

CONTACT ANTCOM

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