2G15X-MNX-X ANTENNA FAMILY
Compact GPS L1 Antenna with Magnetic Mount

The 2G15X-MNX-X product family uses the Global Positioning System (GPS) signal reception in the L1 frequency band. This antenna is a small, round enclosure with magnetic mounting for easy integration onto new and existing platforms. The rugged enclosure can withstand harsh environmental conditions seen in military, aerospace and other applications.

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

**BENEFITS**
- Rugged GPS L1 antenna
- Compact enclosure is ideal for applications with size and weight requirements
- Many standard options available, and customizable if required

**FEATURES**
- Magnetic mount capability
- GPS L1 with M-Code support
- 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; RS; SMA-R
- M: MCX; MM: MMCX
- N: N; NB:N-Bulkhead
- T, TNC: TB: TNC-Bulkhead

**LNA GAIN**
- With 33 dB LNA
- Without LNA

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**ELECTRICAL**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Frequency Range:</td>
<td>L1 GPS 1575.42 ± 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>
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</tbody>
</table>

**MECHANICAL & ENVIRONMENTAL**

Designed to:

- **Weight**: 6.85 oz
- **Temperature**: -55°C TO +85°C
- **Altitude**: 70,000 ft
- **Vibration**: > 30 Grms

**TYPICAL LNA PERFORMANCE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNA Gain</td>
<td>See Options Table</td>
</tr>
<tr>
<td>LNA Noise Figure</td>
<td>3.5 dB</td>
</tr>
<tr>
<td>LNA P1dB Out</td>
<td>+13 dBm</td>
</tr>
<tr>
<td>LNA DC Power</td>
<td>(3.8 - 15) V</td>
</tr>
<tr>
<td></td>
<td>&lt;35 mA</td>
</tr>
</tbody>
</table>

**LIMITING & FILTERING**

- **Power Handling**: 1 Watt CW

**PART NUMBER DECODER**

*2G15X-MNX-X*

- **LNA Gain**: A = With 33 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; RS; SMA-R
  - M = MCX; MM: MMCX
  - N = N; NB: N-Bulkhead
  - T = TNC, TB: TNC-Bulkhead