2G15X-XX-X ANTENNA FAMILY
Compact GPS L1 Antenna

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

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

BENEFITS

• Rugged GPS L1 antenna
• Compact enclosure for applications with size weight requirements
• Many standard options available, and customizable if required

FEATURES

• 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
• M: MCX; MM: MMCX
• N: NB:N-Bulkhead
• T, TNC: TB: TNC-Bulkhead

LNA GAIN
• With 33 dB LNA
• Without LNA

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ELECTRICAL

Frequency Range:
- L1 GPS 1575.42 ± 12 MHz
- VSWR < 2.0:1
- Impedance 50 ohms
- Polarization RHCP

MECHANICAL & ENVIRONMENTAL

Designed to:
- Weight 3.55 oz
- Temperature -55°C TO +85°C
- Altitude 70,000 ft
- Vibration > 30 Grms

TYPICAL LNA PERFORMANCE

<table>
<thead>
<tr>
<th>Parameter</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 &lt; 35 mA</td>
</tr>
</tbody>
</table>

LIMITING & FILTERING

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Power Handling</td>
<td>1 Watt CW</td>
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</tbody>
</table>

PART NUMBER DECODER

2G15X-XX-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
- M = MCM, MM: MMCX
- N = N, NB: N-Bulkhead
- T = TNC, TB: TNC-Bulkhead

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