2G1215X-XX-X ANTENNA FAMILY
Small Round GPS L1/L2 Antenna

The 2G1215X-XX-X product family provides Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. This antenna is designed with a small round enclosure 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 family to meet your specific requirements. Please contact us for more information about customization options.

**BENEFITS**
- Rugged GPS L1/L2 antenna
- Compact round enclosure offers small size & low weight
- Many standard options available, and customizable if required

**FEATURES**
- GPS L1/L2 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: N: NB:N-Bulkhead
- T, TNC: TB: TNC-Bulkhead

**LNA GAIN**
- With 33 dB LNA
- With 20 dB LNA
- With 40 dB LNA
- Without LNA

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ELECTRICAL

Frequency Range:
- L1 GPS: 1575.42 ± 12 MHz
- L2 GPS: 1227.60 ± 12 MHz

VSWR: <2.0:1

Impedance: 50 ohms

Polarization: RHCP

MECHANICAL & ENVIRONMENTAL

Designed to:
- Weight: 4.5 oz
- Temperature: -55°C TO +85°C
- Altitude: 70,000 ft
- Vibration: > 30 Grms

TYPICAL LNA PERFORMANCE

<table>
<thead>
<tr>
<th>LNA Gain</th>
<th>See Options Table</th>
</tr>
</thead>
<tbody>
<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;70 mA</td>
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</tbody>
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LIMITING & FILTERING

Power Handling: 1 Watt CW

PART NUMBER DECODER

2G1215X-XX-X

LNA Gain
- A = With 33 dB
- A2 = With 20 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
- M = MCX; MM: MMCX
- N = N; NB: N-Bulkhead
- T = TNC; TB: TNC-Bulkhead

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