3G1215AF-XX-X ANTENNA FAMILY
FRPA Footprint GPS L1/L2 Antenna with Enhanced Out-of-Band Rejection

This interference rejecting antenna features high out-of-band filtering near the Global Positioning System (GPS) L1 frequency band for assured GPS reception in high interference environments.

The 3G1215AF-XX-X product family provides Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. The product is designed to the standard "Fixed Reception Pattern Antenna" (FRPA) mounting footprint for easy integration onto new and existing platforms. The rugged enclosure can withstand the harsh environmental conditions seen in military, aerospace and industrial applications.

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

**BENEFITS**
- Sharp out-of-band signal rejection for assured GPS
- Compatible with standard GPS receivers
- Rugged GPS L1/L2 antenna for assured position, navigation and timing (PNT)
- Standard FRPA mounting footprint for easy platform integration

**FEATURES**
- High GPS L1 band filtering for rejecting out-of-band interference
- GPS L1/L2 with M-Code support
- FRPA footprint with thru-hole mount or bottom-mount
- Connector options available
- Paint color options available

**OPTIONS**
- **COLOR**
  - Gloss White
  - Lusterless Gray
  - Camo Green
  - Lusterless Black
  - Desert Tan
- **CONNECTOR**
  - SMA
  - TNC
  - Bulkhead TNC
  - Bulkhead Type N
- **LNA GAIN**
  - 33 dB High Filtering

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**ELECTRICAL**

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Out-of-Band Rejection</th>
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<tbody>
<tr>
<td>L1 GPS 1575.42 ± 12 MHz</td>
<td>&gt; 50 dB</td>
</tr>
<tr>
<td>L2 GPS 1227.60 ± 12 MHz</td>
<td>&gt; 70 dB</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**

- Weight: 6.8 oz Typical
- Temperature: -55°C TO +85°C
- Altitude: 70,000 ft
- Vibration: > 20 Grms

**TYPICAL LNA PERFORMANCE**

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

- Power Handling: 1 Watt CW

**PART NUMBER DECODER**

3G1215AF-XX-X

- **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
  - T = TNC
  - TNB = Bulkhead TNC
  - N = Bulkhead Type N

- **Cables**
  - X = No Cables