

# 2G1215AF-XX-X ANTENNA FAMILY

# Mini GPS L1/L2 Antenna with Enhanced Out-of-Band Rejection

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

The 2G1215AF-XX-X product family provides Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. The small round enclosure allows for easy integration onto new and existing platforms. The rugged enclosure can withstand the 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.



# **OPTIONS**

COLOR

- Gloss White
- Lusterless Gray
- Camo Green
- Lusterless Black
- Desert Tan

SMA

CONNECTOR

- MCX
- MMCX
- Type N
- N-Bulkhead
- TNC
- **TNC-Bulkhead**

LNA GAIN

33dB High Filtering

# **BENEFITS**

- Sharp out-of-band signal rejection for assured GPS
- Compatible with standard GPS receivers
- Small and lightweight enclosure

# **FEATURES**

- High GPS L1 band filtering for rejecting out-of-band interference
- GPS L1/L2 with M-Code support
- Connector options available
- Paint color options available

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#### **TYPICAL OUT-OF-BAND REJECTION**

| Frequency Range      | Out-of-Band Rejection  |
|----------------------|------------------------|
| 1526 to 1536 MHz     | > 50 dB                |
| 1627.5 to 1627.5 MHz | > 70 dB                |
| 1646.5 to 1656.5 MHz |                        |
| 1610 to 1626.5 MHz   | > 25 dB above 1610 MHz |
|                      | > 45 dB above 1613 MHz |

#### **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:

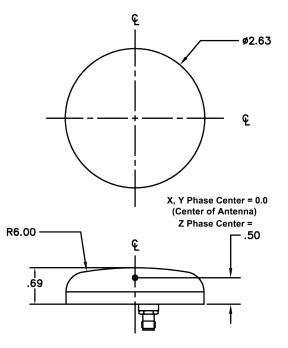
| Weight (Typical) | 4.5 oz         |
|------------------|----------------|
| Temperature      | -55°C to +85°C |
| Altitude         | 70,000 ft      |
| Vibration        | > 30 Grms      |

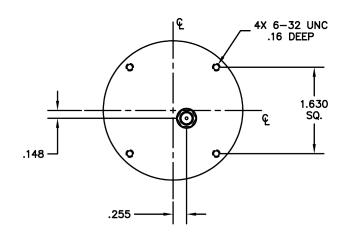
### **TYPICAL LNA PERFORMANCE**

| LNA Gain         | See Options Table |
|------------------|-------------------|
| LNA Noise Figure | 3.5 dB Typical    |
| LNA P1dB Out     | +13 dBm           |
| LNA DC Power     | (3.8 - 15) V      |
|                  | <70 mA            |

#### **LIMITING & FILTERING**

| Power Handling  | 1 Watt CW  |
|-----------------|------------|
| i ower riananng | 1 Matt Off |





# PART NUMBER DECODER 2G1215AF-XX-X

LNA Gain 🔶 AF = 33dB High Filtering • 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 = Type N; NB = N-Bulkhead T = TNC; TB = TNC-Bulkhead

**CONTACT ANTCOM** 

Phone: +1-310-782-1076 Fax: +1-310-782-1086 Email: sales.pi.antcom@antcom.com Web: antcom.com

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