3G1215X-MX-X-A ANTENNA FAMILY
Magnetic Flush Mount GPS L1/L2 FRPA

The 3G1215X-MX-X-A product family uses the Global Positioning System (GPS) signal reception in the L1 and L2 frequency bands. This antenna 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 harsh environmental conditions seen in military, aerospace and industrial applications. A magnetic mounting feature is included for easy installation. The “-A” version of this antenna family locates the output connector opposite the three magnetic mounts.

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 provides assured position, navigation and timing (PNT)
- Standard FRPA mounting footprint with a magnetic mount for easy platform integration
- Many standard options available, and customizable if required

**FEATURES**

- GPS L1/L2 with M-Code support
- FRPA footprint with magnetic mount and side-exit cable output
- 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

**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 | 6.8 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 |
| LNA P1dB Out | +13 dBm |
| LNA DC Power | (3.8 - 15) V <70 mA |

**LIMITING & FILTERING**

| Power Handling | 1 Watt CW |

**PART NUMBER DECODER**

3G1215X-MS-X-A

LNA Gain
A = With 33 dB
A2 = With 20 dB
A4 = With 40 dB
P = 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