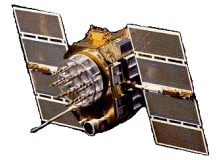




ISO 9001:2008/FAA Approved Facility

Active or Passive L1/L2 GPS Antennas, P/N: 1G1215X-XX-X
 P/N: 1G1215A-XS-4, P/N: 1G1215A-XS-3
 P/N: 1G1215P-6S-1 (6in SMA-Female Cable from the bottom)
 2.0" Square, Back Mount Configurations



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SPECIFICATIONS

ELECTRICAL:

| FREQUENCY: | L1: (1575.42 ±15) MHz | | | L2: (1227.60 ±15) MHz | | |
|----------------------------|-------------------------------------------------------|-----------|-----------|-----------------------|-----------|-----------|
| RADIATION PATTERN: | HEMISPHERICAL | | | | | |
| POLARIZATION: | RHCP | | | RHCP | | |
| VSWR: | < 1.5:1 | | | < 1.5:1 | | |
| IMPEDANCE: | 50 ohms | | | 50 ohms | | |
| ANTENNA GAIN (dBic): | Free Space | 3 in G.P. | 4 ft G.P. | Free Space | 3 in G.P. | 4 ft G.P. |
| @ 90° (ZENITH): | +3.7 | +4.7 | +3.1 | -1.7 | +3.3 | +4.5 |
| @ 10° Elevation: | -2.9 | -1.8 | -1.9 | -7.3 | -3.8 | -3.5 |
| @ 20° Elevation: | -1.3 | -0.3 | +0.6 | -6.2 | -2.0 | -0.8 |
| @ 30° Elevation: | 0.0 | +1.4 | +1.7 | -5.2 | -0.5 | +1.4 |
| @ 60-90° Elevation: | > 3.0 | > 3.9 | > 2.4 | > -3.2 | > 2.7 | > 2.2 |
| BEAM WIDTH (3dB): | 108 Deg. | 114 Deg. | 143 Deg. | 100 Deg. | 106 Deg. | 174 Deg. |
| AXIAL RATIO: | 2 dB | | | | | |
| LIGHTNING PROTECTION: | DC GROUNDING | | | | | |
| LNA GAIN: | 33 dB | | | | | |
| LNA NOISE FIGURE: | 3.0 dB | | | | | |
| LNA P1dB Out: | +13 dBm | | | | | |
| LNA DC POWER: | 2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/450mA | | | | | |
| REJECTION @ (-50/+50) MHz: | -41 dB / -59 dB | | | | | |
| @ (-100/+100) MHz: | < -65 dB | | | | | |
| POWER HANDLING: | 1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-) | | | | | |

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
 HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 2.88 oz. (82 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA FEMALE
 (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-STD-883C, MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-STD-883C, SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

P/N: 1G1215A-XS-1

| SIZE | FREQ. BAND | LNA: |
|---------------|-------------|-----------------------------------------------------------|
| 1: 2" SQ | 1215: L1/L2 | A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS |
| 1.9: 1.9" SQ | 15: L1 ONLY | AL: WITH LNA/LIMITER |
| 2: 2" DIA. | | P: WITHOUT LNA |
| 3: 3.5" DIA. | | PL: WITHOUT LNA and THINNER (0.58" THICK) |
| 4: MINI ARINC | | A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS |

CABLE'S LENGTH : CONNECTOR : COLOR :

| | | |
|----------------------|----------------------------|----------------------------------------------|
| X: NO CABLE | S: SMA; RS: R-SMA; P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B |
| M: MAG; N: NO MAG | M: MCX; MM: MMCX | -2: LUSTERLESS GRAY #36320 PER FED-STD-595B |
| #: CABLE LENGTH (IN) | N: NB; N: N-Bulkhead | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B |
| R: RIGHT ANGLE CON. | T: TB; TNC; TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING
 L1/L2 ACTIVE or PASSIVE
 GPS ANTENNA

D3CVE1 1G1215X-XX-X

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas