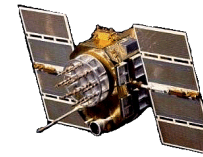




Active or Passive L1/L2 GPS Antenna, P/N: 2G1215X-XX-X

P/N: 2G1215A-XS-2 (P/N: 2G1215A-XSS-2)

2.6" Diameter, Bulkhead/Back Mount Configurations



ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

**NOTICE OF PROPRIETARY RIGHTS**  
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO A THIRD PARTY WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP. IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED

**SPECIFICATIONS**

**ELECTRICAL:**

	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
FREQUENCY:		
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.
@ 90 ° ZENITH:	+5.0 +4.7 +3.1	+0.7 +3.3 +4.5
@ 10 ° Elevation:	-2.1 -1.8 -1.9	-5.8 -3.8 -3.5
@ 20 ° Elevation:	-0.6 -0.3 +0.6	-4.3 -2.0 -0.8
@ 30 ° Elevation:	+0.9 +1.4 +1.7	-3.4 -0.5 +1.4
@ 60 - 90 ° Elevation:	> 4.0 > 3.9 > 2.4	> -0.9 > 2.7 > 2.2
BEAM WIDTH (3dB):	103 Deg. 114 Deg. 143 Deg.	94 Deg. 106 Deg. 74 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	33 dB	35 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA	
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz	< -65 dB	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)	

**MECHANICAL:**

SIZE: DIAMETER: 2.63 in. [ 66.80 mm]  
HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] [Optional for Passive]

WEIGHT: 4.22 oz. (119 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: TNC BULKHEAD  
(OPTION: TNC, SMA, 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-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

**MECHANICAL DRAWING:**

**SIZE:** 1: 2" SQ. 1.89 1.9" SQ. 2: 2.6" DIA. 3: 3.5" DIA. 4: MINI ARINC

**FREQ. BAND:** 1: L1/L2 15 L1 ONLY

**LNA:** A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS  
AL: WITH INVERTER  
P: WITHOUT LNA  
PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")  
A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

**CONNECTOR:** S: SMA; RS: R-SMA; P: PINS  
M: MCX; MM: MMCX  
N: N; N: N Bulkhead  
R: RIGHT ANGLE CON.

**COLOR:** 1: GLOSS WHITE #17925 PER FED-STD-595B  
2: LUSTERLESS GRAY #36320 PER FED-STD-595B  
3: OLIVE DRAB GREEN #34031 PER FED-STD-595B  
4: LUSTERLESS BLACK #37038 PER FED-STD-595B

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND DECIMAL FRACTIONS ARE TO BE USED UNLESS INDICATED OTHERWISE**

**ANTCOM CORP.** TORRANCE CALIFORNIA

**OUTLINE DRAWING**  
L1/L2 ACTIVE or PASSIVE GPS ANTENNA

DWG NO. 13CVE12G1215A-XTB-1

SCALE 1/1

SHEET 1 OF 1

**NOTES:** UNLESS OTHERWISE SPECIFIED:  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
2. MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION  
3. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

**P/N: 2G1215A-XTB-1**

**QUANTITY REQUIRED**

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO
1	ADHESIVE GASKET	123456-3M-2G				5
1	WASHER, LOCK	AN936B816				2
1	HEX NUT, MOUNTING	1/2-20 HEX				1

NMO Connector Option is Now Available for Some Antennas