



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

P/N: 2G1215A-XSS-2 (Stainless Steel SMA)

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 . <http://www.antcom.com>

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
		ACTIVE L1/L2 GPS ANTENNA		
		P/N: 2G1215A-XS-2		
		REV: 66603 UFT-48-01-0001		

ELECTRICAL:

	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	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	
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, (2.5-24)V/<50mA	
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: 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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	12345G-3M-2G				3
1	WASHER, LOCK	AN936B816				2
1	HEX NUT, MOUNTING	1/2-20 HEX				1

SIZE: FREQ. BAND: LNA:
1: 2" SQ. 1215: L1/L2 A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.8: 1.9" SQ. 15: L1 ONLY AL: WITH LNA/MITTER
2: 2.6" DIA. P: WITH-OUT LNA
3: 3.5" DIA. PL: WITH-OUT LNA and THINNER (HEIGHT = 0.58")
4: MINI ARINC A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE TO 3 ANGLES ± 1/64 30 ± .015 30 ± 1'

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
L1/L2 ACTIVE OR PASSIVE GPS ANTENNA

DWG NO: 3CVE12G1215A-XTB-1
SCALE: 1/1 SHEET 1 OF 1

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SCALE: 1/1 SHEET 1 OF 1

P/N: 2G1215A-XTB-1

NOTES: UNLESS OTHERWISE SPECIFIED:

- ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
- MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION
- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

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. NO MAG. M: MCX; MM: MMCX -2: LUSTER: ESS GRAY #36320 PER FED-STD-595B
C: CABLE LENGTH (IN) N: N; N2: N; N-Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON. T: T; TB: TNC; TNC-Bulkhead -4: LUSTER: LESS BLACK #37038 PER FED-STD-595B

DO NOT SCALE DRAWING