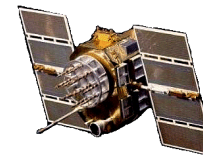




Active or Passive L1/L2 GPS Antennas, P/N: 2G1215X-XX-X

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

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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1	ACTIVE L1/L2 GPS ANTENNA		
	2	ACTIVE L1/L2 GPS ANTENNA		
	3	ACTIVE L1/L2 GPS ANTENNA		
	4	ACTIVE L1/L2 GPS ANTENNA		
	5	ACTIVE L1/L2 GPS ANTENNA		
	6	ACTIVE L1/L2 GPS ANTENNA		
	7	ACTIVE L1/L2 GPS ANTENNA		

QUANTITY REQUIRED

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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES AND DECIMAL FRACTIONS UNLESS OTHERWISE SPECIFIED. ANGLES ± 1/64. TOLERANCE SHOWN PER ANSI #14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .010
FILE TO .001
SOFTEN THREADS PER MIL-C-8879
DAYS ON A CONICAL SURFACE
MACHINED SURFACES
DO NOT SCALE DRAWING

APPROVED
DESIGNED: M. BOAS 01-05-29
CHECKED: S. HUYNH 01-05-29
DATE FILED: 01-05-29

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

SPECIFICATIONS

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.
@ 90 ° (ZENITH):	+5.0	+4.7
@ 10 ° Elevation:	-2.1	-1.8
@ 20 ° Elevation:	-0.6	-0.3
@ 30 ° Elevation:	+0.9	+1.4
@ 60 - 90 ° Elevation:	> 4.0	> 3.9
BEAM WIDTH (3dB):	103 Deg.	114 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:

ENVIRONMENTAL:

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO:

ACCEPTANCE TEST PROCEDURE:

P/N: 2G1215A-XTB-1

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

CABLE'S LENGTH: X: NO CABLE; M: MAG. IN. NO MAG.; R: CABLE LENGTH (IN); R: RIGHT ANGLE CON.
CONNECTOR: S: SMA; RS: R-SMA; P: PINS; M: MCX; MM: MMCX; N: N; N: N Bulkhead; T, TS: TNC, TNC-Bulkhead
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

NMO Connector Option is Now Available for Some Antennas