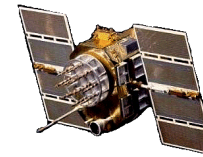




Active or Passive L1/L2 GPS Antenna, P/N: 1.9G1215X-XP2-X

1.9" Square, Flat 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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MOUNTING: ADHESIVE

$\phi .120$ [3.05] Clearance

SPECIFICATIONS

ZONE	REV	REVISIONS					
		DESCRIPTION	DATE	APPROVED			
ELECTRICAL:							
FREQUENCY:		L1: (1575.42±12)MHz		L2: (1227.60±12)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)		+ 2.7	+ 4.7	+ 3.1	+ 1.5	+ 3.3	+ 4.5
@ 10° Elevation:		- 4.4	- 1.8	- 1.9	- 6.7	- 3.8	- 3.5
@ 20° Elevation:		- 2.3	- 0.3	+ 0.6	- 5.6	- 2.0	- 0.8
@ 30° Elevation:		- 0.8	+ 1.4	+ 1.7	- 4.5	- 0.5	+ 1.4
@ 60 - 90° Elevation:		> 2.0	> 3.9	> 2.4	> 0.0	> 2.7	> 2.2
BEAM WIDTH (3dB):		113 Deg.	114 Deg.	143 Deg.	85 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:		2 dB		2 dB			
LIGHTNING PROTECTION:		DC GROUNDING					

LNA OPTION:

LNA GAIN: (21.0+/-2.0) dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.912 in. [48.56 mm] SQ.
 HEIGHT: 0.355 in. [9.02 mm]

WEIGHT: 2.0 oz. (56.7 g)

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

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: 0.030" DIA. PIN, 0.100" LONG
 (OPTION: SMA, 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-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
PARTS LIST						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS DECIMALS ANGLES
 ± 1/64 .0005 ± 1°

TOLERANCE SYN PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILLETS R .005 TO R .030
 SCREW THREADS PER UN-5-8879
 DIA'S ON A COMMON & 27.000

MACHINED SURFACES ✓

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

1.9" SQUARE L1/L2 PASSIVE GPS ANTENNA

ENGINEER: S. HUYNH
 Sep-19-01

APPROVED: S. HUYNH
 Sep-19-01

SCALE 1/1

SHEET 1 OF 1

SIZE:

1: 2" SQ.	1215: L1/L2	LNA:
1.9: 1.9" SQ.	15: L1 ONLY	A2: WITH 20 dB LNA
2: 2.6" DIA.		A4: WITH 40 dB LNA
3: 3.5" DIA.		P: WITHOUT LNA
4: MINI ARINC		

P/N: 1.9G1215P-XP2-X

CABLES LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: P2-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
R: CABLE LENGTH (IN)	N: NB; RS: R-SMA	-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]

1

2

3

4

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6

NMO Connector Option is Now Available for Some Antennas