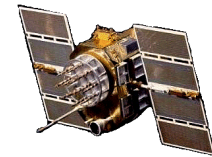


Active or Passive L1/L2 GPS Antennas, P/N: 1G1215A-XRS-X

2.0" Square, Right Angle SMA, Back Mount Configurations



NavtechGPS

Contact NavtechGPS for product details. www.NavtechGPS.com
+1-703-256-8900 • 800-628-0885 • info@navtechgps.com



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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SPHERICAL R6.000 [R152.40]

2.078 [52.78] SQ.

.690 [17.53]

0.58 [14.73] (Optional for Passive), -PL-

0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

**MOUNTING:
4X 4-40 UNF-2A
X 0.155 Deep,
& ADHESIVE GASEKET**

4X .756 [19.20]

4X .756 [19.20]

.255 [6.48]

.149 [3.78]

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

**0.4" Dia Clearance Hole for SMA, MCX, MMCX Con.
0.52" Dia Clearance Hole for TNC Con.
0.63" Dia Clearance Hole for N Con.**

4X R.780 [R19.81]

R.125 [R3.18]

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL			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:	> 3.9	> 3.9	> 2.4	> -3.2	> 2.7	> 2.2
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	143 Deg.	100 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 microsecond Pulse					

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: RIGHT ANGLE 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-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-1G				3
1						2
1						1
-2						-1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .005 .010 ± 1°
TOLERANCE SURF PER ASH 174.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FALLS TO .005 IN .002
SHOW THEC FOR ALL DIMENSIONS
DAYS ON A COMMON 1/27/2009
MACHINED SURFACES

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING
L1/L2 ACTIVE or PASSIVE
GPS ANTENNA

P/N: 1G1215A-XRS-4

CABLES LENGTH :	CONNECTOR :	COLOR :
X: NO CABLE	S: SMA, RS, R-SMA, P-PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAC, N: NO MAC	M: MCX, MM, MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: NIB, 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

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

NMO Connector Option is Now Available for Some Antennas