

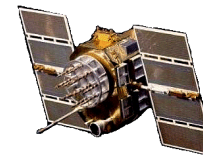


ISO 9001:2008/FAA Approved Facility

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

L1/L2 GPS Antenna, P/N: 1.9G1215P-7.38S-2-3 Rev C

2.0" Square, Flat Mount Configuration with 7.375 in Straight SMA, Gray



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
B		1.906in to 1.911 in	FEB-24-10	S.H
C		(1.906+/-0.015)in	May-10-10	S.H

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
FREQUENCY:	HEMISPHERICAL					
RADIATION PATTERN:	RHCP					
POLARIZATION:	RHCP					
VSWR:	< 1.7:1					
IMPEDANCE:	50 ohms					
ANTENNA GAIN (dBi):	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:	> 3.0	> 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					
LIGHTNING PROTECTION:	DC GROUNDING					

LNA OPTION:

LNA GAIN:	20 dB	20 dB
LNA NOISE FIGURE:	1.9 dB	1.8 dB
LNA P1dB Out:	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/10mA, 3V/10mA, 3.3V/12mA, (2.5-24)V/1<20mA	
POWER HANDLING:	1 Watt CW, MORE WITH LIMITTER OPTION	

MECHANICAL:

SIZE: LENGTH = 1.911 in. [48.54 mm], WIDTH = 1.911 in. [48.54 mm]
HEIGHT = 0.380 in. [9.65 mm]

WEIGHT: 2.11 oz. (61 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F Type I Class 1A or 3

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: STRAIGHT SMA WITH 7.375" CABLE
(OPTION: SMB, SMC, SSMA, SSMA, SSMC, SSMP, MCX, MMCX, TNC, OR N)

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

Dimensions: (1.906+/-0.015)in, 4xø.250 [ø6.35], .150 [3.81], 4xø.125 [ø3.18] Thru. for 4-40 Mounting Screws, 0.138" Thick

Dimensions: (0.380+/-0.005)in Passive, .138 [3.51], .216 [5.49], 7.375in +/-0.125in

Dimensions: 1.658 [42.10], .829 [21.05]

Dimensions: .829 [21.05], 1.658 [42.10]

Options: Straight SMA, 7.375" LONG CABLE (OPTIONAL: SMA, SMB, MCX, MMCX, SSMA, SSMB, SSMC, SSMP, TNC, OR N)

Optional Mounting: ADHESIVE GASKET

SIZE: FREQ. BAND: LNA:

1: 2" SQ. 1215: L1/L2 A2: WITH 20 dB LNA, A2L: A2 WITH LIMITTER

1.9: 1.9" SQ. 15: L1 ONLY A4: WITH 40 dB LNA, A4L: A4 WITH LIMITTER

2: 2.6" DIA. P: WITHOUT LNA

3: 3.5" DIA. PL: WITHOUT LNA WITH LIMITTER

4: MINI ARINC

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

2. ADHESIVE GASKET IS 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.; W: CABLE LENGTH (IN); R: RIGHT ANGLE CON.

CONNECTOR: S: SMA; RS: R-SMA; P: PINS; M: MCX; MM: MMCX, SMB; SSMA, SSMB, SSMC, SSMP

CO. OR: -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

P/N: 1.9G1215P-7.38S-2-3

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCE SURF PER ANSI Y14.5 REMOVE ALL BURRS BREAK TO TYPICAL DIMS .005 TO .015 SCREW THREADS PER MIL-S-8879 DIM'S ON A COMMON 4.27" DIA. MACHINED SURFACES 1/2"

ANTCOM CORP. TORRANCE, CALIFORNIA

1.9" SQ. PASSIVE L1/L2 GPS ANTENNA WITH CABLE

APPROVED: S. HUYNH Feb-19-14

SCALE: 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas