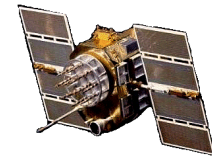




Passive L1/L2 GPS Antenna, P/N: 1.9G1215P-XS-X-LM (1.9" Sq. x 0.355" Thick), Flat Mount Configuration



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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SPECIFICATIONS

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					

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: SMA FEMALE
 (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

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		ADDED MOUNTING HOLES	05/02/12	S.H

C

B

A

4x R.72 [R18.19]

1.91 [48.56] SQ.

.355 [9.02]

0.10" (PIN), 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)

4x 4-40 UNC .100 DEEP

2X 1.34 [33.92]

.15 [3.77]

.26 [6.48]

ADHESIVE MOUNTING OPTIONAL

SMA FEMALE CONNECTOR (OPTION: TNC, TNC Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable) Clearance Hole: 0.4" Dia. for SMA, MCX, & MMCX Con. 0.52" Dia. for TNC Con. 0.63" Dia. for N Con.

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1	-	-	-	-	-	1
QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO

P/N: 1.9G1215P-XS-4

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

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

CABLE'S 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
#: CABLE LENGTH (IN)	N: NB; RS: R-SMA	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 .xxx ± .015 ± 1°
 TOLERANCE 5VM PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILETS R .005 TO R .030
 SCREW THREADS PER MIL-S-8879
 DIA'S ON A COMMON 2.000
 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP.

1.9" SQUARE
L1/L2 PASSIVE
GPS ANTENNA

DRAWN: S. HUYNH
 ENGINEER: Sep-19-01
 APPROVED: S. HUYNH
 CAD FILE NO: Sep-19-01

D 3CVE1 1.9G1215P-XS-4-LM A
 SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

CC: 3CVE1, NAICS: 334511, S. Huynh, June 4, 2016

<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers/Power Divider/Combiner/Filters)

63 of 218