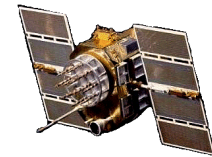




Active L1/L2 GPS Antenna, P/N: 2.3G1215A-XRS-4 Rev A

Low Profile (2.15x2.07x0.37) in, Flat/Front 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:

	L1: (1575.42±12) MHz			L2: (1227.60±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	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: -A-: (33.0±/2.0) dB; -A2-: (21.0±/2.0) dB
LNA NOISE FIGURE: 1.8 dB (Without Filter); 2.4 dB (with Filter)
LNA P 1dB Out: +16 dBm
VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 2.15 in. [54.5mm] x 2.07 in. [52.5mm]
HEIGHT: 0.40 in. [10.16 mm]
WEIGHT: 2.92 oz. (82.7 g)
FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
BASE IRIDITEPER MIL-C-5441

MATERIAL: 6061-T6ALUMINUMALLOY BASE
THERMOSETPLASTICRADOME,UV, ABRASIONAND
SKYDROLRESISTANCE

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

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000ft.
VIBRATION: >30 G's
LEAKAGE: HERMETICALLYSEAL

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A AND MIL-STD-810

ZONE	REV	DESCRIPTION	DATE	APPROVED

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P/N: 2.3G1215A-XRS-4

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A: WITH 30 dB LNA/FILTER; A2: WITH 20 dB LNA/FILTER
1.9: 1.9" SQ.	15: L1 ONLY	A1: WITH 10 dB LNA/FILTER
2.3: 2.3" SQ.		P: WITHOUT LNA
2: 2" DIA.		P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
3: 3.5" DIA.		P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

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 #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TBC, TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO

ANTCOM CORP. TORRANCE, CALIFORNIA

L1/L2 Active GPS ANTENNA for NLOS (PAM)

DRAWN: S. HUYNH
CHECKED: S. HUYNH
ENGINEER: S. HUYNH
APPROVED: S. HUYNH
CAD FILE NO: D_3CVE1

SCALE 1/1 SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS TOLERANCES ARE ANGLES
± 1/64 .XXX .010 ± 1°

TOLERANCE SYM PER ANSI Y14.6
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON & Z⁰⁰⁵
MACHINED SURFACES ✓
DO NOT SCALE DRAWING

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)

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