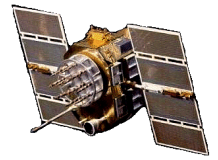




Active L1/L2 GPS Antenna, P/N: 2.3G1215A2-6.2MM-4 Rev G

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:

FREQUENCY:	L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 2:1			< 2:1		
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					

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
E		Mounting Hole Size/Location	Feb-21-09	S.H
F		Flange Thickness 0.06in to 0.06in Cable from 15.75 to 8.25	June-30-09	S.H
G		Weight to 2.08oz, Chem Film, Label	Feb-07-10	S.H

LNA:

LNA GAIN: (21.0+/-2.0) dB
 LNA NOISE FIGURE: 1.8 dB (Without Filter)
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 2.15 in. [54.5 mm] x 2.07 in. [52.5 mm]
 HEIGHT: 0.38 in. [9.6 mm]
 WEIGHT: 2.09 oz [59.25 g]
 FINISH: BASE ITRIDITE PER MIL-DTL-5541 Type I Class 1A

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 THERMOSET PLASTIC RADOME

CONNECTOR: 6.2in MMCX Male 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

SIZE:
 1: 2" SQ.
 1.9: 1.9" SQ.
 2: 2.6" DIA.
 3: 3.5" DIA.

FREQ. BAND:
 1215: L1/L2
 15: L1 ONLY

LNA:
 A: WITH 30 dB LNA; A2: WITH 20 dB LNA
 A1: WITH 10 dB LNA
 P: WITHOUT LNA
 P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
 P2L: WITH-OUT LNA, WITH DUAL LINEAR POLARIZATION

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

P/N: 2.3G1215A2-6.2MM-4

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, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	1
QUANTITY REQD	PARTS LIST					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES						
FRACTIONS DECIMALS ANGLES						
± 1/64 .XXX ± 1°						
TOLERANCE SYM PER ANSI Y14.5						
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 & 2° .005						
MACHINED SURFACES 25/						
DO NOT SCALE DRAWING						

ANTCOM CORP. TORRANCE, CALIFORNIA

L1/L2 Active GPS ANTENNA

ENGINEER: S. HUYNH
 Sep/04/07

CAD FILE NO: D 3CVE1

SCALE 1/1

SHEET 1 OF 1

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6
5
4
3
2
1

NMO Connector Option is Now Available for Some Antennas