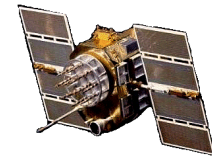




# Active or Passive L1 GPS Antennas, P/N: 2G15A-XTNB-X

## 2.6" Diameter, 5/8-24 Bulkhead/Back Mount Configurations



ISO 9001:2008/FAA Approved Facility    Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

**X, Y Phase Center = 0.0**  
(Center of Antenna)  
**Z Phase Center = .510** [12.95]

### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+ 5.0	+ 2.5	+ 3.6
@ 10° Elevation:	- 2.3	- 2.9	- 1.7
@ 20° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:	> 4.2	+4.7/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB		
@ (-100/+100) MHz	< -65 dB		

**MECHANICAL:**

SIZE: DIAMETER: 2.60 in. [66.04 mm]  
HEIGHT: 0.690 in. [17.53 mm] (Active), 0.58" [14.73] (Passive)

WEIGHT: 4.00 oz. (113 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDITE PER MIL-C-5441F

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

CONNECTOR: TNC FEMALE BULKHEAD  
(OPTION: TNC, SMA, 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	FINISH	REF NO
1	O-RING, (94115K024) Item 553	MS28775-024	-	3
1	ADHESIVE GASKET	12345G-3M-2G	-	2
1	HEX NUT AND LOCK WASHER, Item 489N	489N	-	1

P/N: 2G15A-XTNB-1

SIZE:	FREQ. BAND:	LNA:
1. 1.6" SQ.	1215 L1/L2	A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
2. 2.6" DIA.	15: L1 ONLY	P: WITHOUT LNA
3. 3.5" DIA.		
4. MINI AIRINC		

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
#: CABLE LENGTH (IN)	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
M: MAG, N: NO MAG.	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	NTB: TNC-Bulkhead with N Connector Thread on Bulkhead	

NOTES: UNLESS OTHERWISE SPECIFIED:

- ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
- MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION
- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINALLY DRAWN	S. HUYNH
FRACTIONS DECIMALS ANGLES	ORIGINALLY DESIGNED	S. HUYNH
± 1/64 .005 ± .1°	DATE	09-09-13
TOLERANCE SURF PER ANSI Y14.5	APPROVED	P. TRAN
REMOVE ALL BURRS	DATE	09-09-13
BREAK EXTERNAL EDGES .005 TO 0.015	SCALE	1/1
FILETS R .005 TO R .010		
DR'S ON A COMMON & 20,000		
MAINED SURFACES 125		
DO NOT SCALE DRAWING		

**ANTCOM CORP.** TORRANCE, CALIFORNIA

2.6" Dia  
ACTIVE L1 GPS  
ANTENNA

DATE: 09-09-13    DRAWN BY: S. HUYNH    SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas