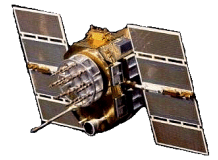


Passive L1 GPS Antenna, P/N: 2G15P-XX-X: 2.6" Diameter, Bulkhead/Back Mount Configuration



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 . <http://www.antcom.com>

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1	ACTIVE L1 L2 GPS ANTENNA		
	2	P/N: 2G15P-XX-X		
	3	REVISED V1.43 (08/01)		
	4	ANTCOM CORPORATION		
	5	TORRANCE, CA, USA		

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 OPTION:

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
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)

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-5441
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: TNC 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-5641
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO
1	ADHESIVE GASKET	123456-3M-2G	-	-	-	5
1	WASHER, LOCK	AN936B816	-	-	-	3
1	HEX NUT, MOUNTING	1/2-20 HEX	-	-	-	1
-2	-1	-	-	-	-	-

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS TO DECIMALS AND ANGLES
± 1/64 DEC 0.05 ± 1°
± 1/32 DEC 0.01

TOLEANCE 5TH PER ANSI Y14.5
REVISE ALL DIMS
BREAK SPACED DIMS TO .015
FAIR TO .002 PER ASME
DIMS ON A CIRCLE & 2X
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
2.6" Dia.
L1 ACTIVE or PASSIVE
GPS ANTENNA

DESIGNED: M. BOAS 01-05-29
DRAWN: S. HUYNH 01-05-29
APPROVED: S. HUYNH 01-05-29

SCALE 1/1 SHEET 1 OF 1

SIZE: FREQ. BAND: LNA:

1: 2" SQ	1215: L1/L2	A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
1.8: 1.9" SQ	15: L1 ONLY	P: WITHOUT LNA
2: 2.6" DIA.		
3: 3.5" DIA.		
4: MINI AIRINC		

P/N: 2G15P-XS-3

CABLES LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA, P: 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
F: CABLE LENGTH (IN)	N, NB, N, N-Bulkhead	-3: OLIVE DRAB GREEN #34931 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

3. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
2. MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED: