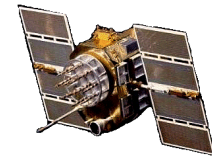




Passive L1 GPS Antenna

P/N: 2G15P-XX-X



2.6" Diameter. Other Frequencies, Connectors and Colors are Available

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

Top View: $\phi 2.600$ [066.04]

Side View: $\phi 12.000$ [304.80], .668 [16.97]

Connector View: .815 [20.70], .143 [3.65], 4X 6-32 UNC 0.160 DEEP ON 1.153 R, MADE IN USA

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 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 = 0.668 In. [16.97 mm]

WEIGHT: 4.5 oz. (128 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441F, TYPE 2 CLASS3

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

CONNECTOR: SMA FEMALE
(OPTION: TNC, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
1				

SIZE:	FREQ. BAND:	LNA:	1	ADHESIVE GASKET	123456-3M-2G	-	-	-	3
1: 2" SO.	1215: L1/L2	A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA	1	WASHER, LOCK	AN936B816	-	-	-	2
1.9: 1.9" SO.	15: L1 ONLY	P: WITHOUT LNA	1	HEX NUT, MOUNTING	1/2-20 HEX	-	-	-	1
2: 2.6" DIA.			-2						
3: 3.5" DIA.			-1						
4: MINI ARINC									

P/N: 2G15P-XS-X

CABLE'S 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
R: CABLE LENGTH (IN)	N: NPT; N-B: Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB, TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37039 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: ± 1/64 .005 .010 ± 1°

TOLERANCE 5/16 PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILES R .005 TO R .030

SPREW THREADS PER MIL-E-8879

DAYS ON A COMMON 1/2" DIA.

MACHINED SURFACES

DO NOT SCALE DRAWING

<p>ANTCOM CORP. TORRANCE CALIFORNIA</p> <p>2.6" Dia. L1 ACTIVE or PASSIVE GPS ANTENNA</p> <p>SCALE 1/1</p> <p>SHEET 1 OF 1</p>	<p>APPROVED: S. HUYNH Feb-10-16</p> <p>DATE: Feb-10-16</p> <p>REV: 1</p> <p>DESCRIPTION: 2G15P-XX-X</p>
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NMO Connector Option is Now Available for Some Antennas