

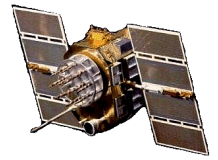


ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

Active or Passive L1 GPS Antenna, P/N: 2G15X-XX-X

2.6" Diameter, Bulkhead/Back Mount Configuration



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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 IRIDIUM PER MIL-C-5541

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

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, (2.5-24V)/<30mA
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB
@ (-100/+100) MHz	< -65 dB

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REVISIONS:

ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	UPDATE COLOR AND PART NUMBER	06/24/15	S.H.

QUANTITY RECORD

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	123450-3M-2G			
1	WASHER, LOCK (FOR TNC BLK ONLY)	AN9368B16			
1	HEX NUT, MOUNTING (FOR TNC BLK ONLY)	1/2-20 HEX			
-2	-1	DESCRIPTION	PART NO	MATERIAL	FINISH

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS TO DECIMALS
± 1/64 .002 .015 ± 1"

TOLERANCE 5VM PER ANG 114.5
REMOVE ALL BEANS
BREAK EXTERNAL EDGES .005 TO .015
SLOT ± .002 TO 0.005
SLOT ± .0025 PER MIL-C-2679
DAYS ON A COMMON 2-27-05
MACHINED SURFACES 127

DO NOT SCALE DRAWING

P/N: 2G15A-XT-1

CABLE'S LENGTH:	FEMALE 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: N; N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

NOTES: UNLESS OTHERWISE SPECIFIED:

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

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6" Dia
ACTIVE or PASSIVE
GPS ANTENNA

D13CVE1 2G15X-XX-X

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas