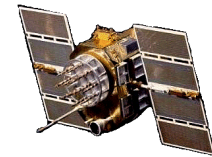




ISO 9001:2008/FAA Approved Facility

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



Active L1/L2 GPS Antennas, P/N: 1G1215A-XTNB-3

2" Square, Back Mount, Bottom Center Connector Configuration

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>

4X R.780 [R19.81]

2.078 [52.78] SQ.

R6.000 [R152.40]

.690 [17.53]

.400 [10.17]

.830 [21.08]

.624 DIA.
5/8-24 UNEF-2A

TNC BULKHEAD CONNECTOR
(OPTION: SMA, BNC, N, N-Bulkhead, MCX, MMCX)

1.512 [38.40] SQ.

4X 4-40 UNC
.155 DEEP

HEX NUT, 5/8-24 UNEF
HEX NUT HEIGHT: .175
ACROSS HEX FLATS: 1.00

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz		L2: (1227.60 ±15) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	< 1.5:1		< 1.5:1			
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):	+ 3.7	+ 4.7	+ 3.1	- 1.7	+ 3.3	+ 4.5
@ 10 ° Elevation:	- 2.9	- 1.8	- 1.9	- 7.3	- 3.8	- 3.5
@ 20 ° Elevation:	- 1.3	- 0.3	+ 0.6	- 6.2	- 2.0	- 0.8
@ 30 ° Elevation:	0.0	+ 1.4	+ 1.7	- 5.2	- 0.5	+ 1.4
@ 60 - 90 ° Elevation:	> 3.0	> 3.9	> 2.4	> - 3.2	> 2.7	> 2.2
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB		2 dB			
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB		35 dB			
LNA NOISE FIGURE:	3.0 dB		3.0 dB			
LNA P1dB Out:	+13 dBm		+13 dBm			
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/+50mA					
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB		-40 dB / -40 dB			
@ (-100/+100) MHz	< -65 dB		< -65 dB			
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 4.06 oz. (115.1 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541, With Radome matching color

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

CONNECTOR: TNC BULKHEAD FEMALE
(OPTION: SMA, TNC, N, N-Bulkhead, MCX, MMCX, or BNC)

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

SIZE:	FREQ. BAND:	LNA:	1	-	-	-	-	3
1: 2" SQ.	1215; L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS	1	-	-	-	-	2
1.8; 1.8" SQ.	18; L1 ONLY	AL: WITH LNA/LIMITER	1	-	-	-	-	1
2: 2.6" DIA.		P: WITHOUT LNA						
3: 3.5" DIA.		PI: WITHOUT LNA and THINNER (0.58" THICK)						
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS						

P/N: 1G1215A-XTNB-3

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	RSC: R-SMA; SC: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	MC: MCX; MMC: MMCX; FC: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	NC: N: N: Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
	T: TNC; TNC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37039 PER FED-STD-595B
	N: Connector Thread on Bulkhead	-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. Torrance, CA
FRACTIONAL DECIMALS	ANGLES	
± 1/64	± 1°	<p style="text-align: center;">Center Connector, 2in Square Active L1/L2 GPS ANTENNA</p> <p style="text-align: center; font-size: 1.2em; font-weight: bold;">D13CVE1 1G1215A-XTNB-X</p>
TOLERANCE 5VM PER ANSI Y14.5		<p>SCALE 1/1</p> <p>SHEET 1 OF 1</p>

NMO Connector Option is Now Available for Some Antennas