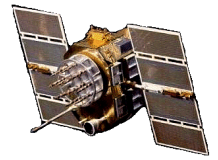




Active or Passive L1/L2 GPS Antennas, P/N: 2G1215A-XTBR-X

2.6" Diameter, Centered Bulkhead/Back Mount Configurations



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

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Spherical R6.000 [R152.40]

Ø2.630 [Ø66.80]

X, Y Phase Center

Z Phase Center

0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

TNC BULKHEAD CONNECTOR
(OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)
Clearance Hole: 0.4" Dia. for SMA, MCX, & MMCX Con.
0.52" Dia. for TNC Con.
0.63" Dia. for N Con.

4x .815 [20.70]
4x .625 [15.88]
4x 1.109 [28.18]

4x .460 [11.67]
4x .625 [15.88]
4x .815 [20.70]

4x 4-40 UNC .120 DEEP ON .880 RAD.
4x 6-32 UNC .250 DEEP ON 1.153 RAD.
4x 10-32 UNF .230 DEEP ON 1.201 [30.5] RAD.

O-RING
P/N: 94115K024
O.D.: 1.278
I.D.: 1.090

SIZE: FREQ. BAND: LNA: 1: 2" SO. 1215; L1/L2 A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS. 1.8: 1.9" SO. 18; L1 ONLY AL: WITH LNA/LIMITER 2: 2.6" DIA. P: WITHOUT LNA 3: 3.5" DIA. PL: WITHOUT LNA AND THINNER (HEIGHT = 0.58") 4: MIN ARINC A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

P/N: 2G1215A-XTBR-1

CABLES LENGTH: CONNECTOR: COLOR: X: NO CABLE S: SMA; RSR-SMA; P: PINS -1: GLOSS WHITE #17925 PER FED-STD-595B M: MAG. NO MAG. M: MCX; MM; MMCX -2: LUSTERLESS GRAY #36320 PER FED-STD-595B P: CABLE LENGTH (IN) N: N; N-Bulkhead -3: CAMO GREEN #34094 PER FED-STD-595B R: RIGHT ANGLE CON. T: TR; TNC; TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: DESERT TAN #33446 PER FED-STD-595B

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]

NOTES: UNLESS OTHERWISE SPECIFIED:

SPECIFICATIONS

| ZONE | REV | REVISIONS | | |
|------|-----|------------------------------|---------|----------|
| | | DESCRIPTION | DATE | APPROVED |
| A | | WEIGHT CORRECTION, NEW BSPLT | 5/21/15 | S.H |

ELECTRICAL:

| | L1: (1575.42 ±12) MHz | L2: (1227.60 ±12) MHz |
|---------------------------|---|-----------------------|
| FREQUENCY: | | |
| RADIATION PATTERN: | HEMISPHERICAL | |
| POLARIZATION: | RHCP | |
| VSWR: | < 1.5:1 | |
| IMPEDANCE: | 50 ohms | |
| ANTENNA GAIN (dBic): | Free Space | 3 in G.P. |
| @ 90 ° (ZENITH): | + 5.0 | + 4.7 |
| @ 10 ° Elevation: | - 2.1 | - 1.8 |
| @ 20 ° Elevation: | - 0.6 | - 0.3 |
| @ 30 ° Elevation: | + 0.9 | + 1.4 |
| @ 60 - 90 ° Elevation: | > 4.0 | > 3.9 |
| BEAM WIDTH (3dB): | 103 Deg. | 114 Deg. |
| AXIAL RATIO: | 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 | |
| @ (-100/+100) MHz | < -65 dB | |
| POWER HANDLING: | 1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-) | |

MECHANICAL:

SIZE: DIAMETER: 2.63 in. [66.8 mm]
HEIGHT: 0.885 in. [22.48 mm]

WEIGHT: 5.64 oz. (165 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE 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, DO-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 | SPECIFICATION | MATERIAL | FINISH | ITEM NO |
|-----|-------------------|--------------|---------------|----------|--------|---------|
| 1 | O-RING | 94115K024 | | | | 4 |
| 1 | ADHESIVE GASKET | 123456-3M-2G | | | | 3 |
| 1 | WASHER, LOCK | AN936BB16 | | | | 2 |
| 1 | HEX NUT, MOUNTING | 1/2-20 HEX | | | | 1 |

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 .002 .005 ± .1°

TOLERANCE SYM PER ANSI Y14.5 REMOVE ALL DIMENSIONS FROM EXTERNAL EDGES .005 TO .015 SCREW HEADS PER MIL-C-8878 DIA'S ON A COLUMN & 2X ONLY MACHINED SURFACES ± .001

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
L1/L2 ACTIVE or PASSIVE
GPS ANTENNA

REV **DATE** **BY** **APP'D** **DATE** **BY**

1 **3CVE1** **S.H** **5/21/15** **S.H** **5/21/15**

SCALE 1/1 **SHEET 1 OF 1**

NMO Connector Option is Now Available for Some Antennas