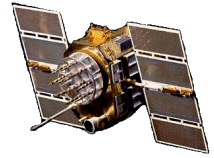




Active or Passive L1/L2 GPS Antennas

P/N: 2G1215A-XRS-X

2.6" Diameter, Back Mount, Right Angle SMA Connector 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]
 .690 [17.53]
 0.58 [14.73] (Optional for Passive, -PL-)
 R.38 [R9.53] (BLEND)
 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)
 Rotation Angle Can Be Customized

Optional Mounting:
 4x 6-32 UNC-2B, 0.160" Deep, &
 ADHESIVE GASKET

4x .815 [20.70]
 4x .815 [20.70]
 .148 [3.77]
 .255 [6.48]

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	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	-40 dB / -40 dB
@ (-100/+100) MHz:	< -65 dB	
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)	

MECHANICAL:

SIZE: DIAMETER: 2.63 In. [66.80 mm]
 HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)
 WEIGHT: 4.22 oz. (119 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: RIGHT ANGLE SMA FEMALE CONNECTOR
 (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-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	REV
1	ADHESIVE GASKET	12345G-3M-2G	-	-	-	5
1	WASHER, LOCK	AN936B816	-	-	-	3
1	HEX NUT, MOUNTING	1/2-20 HEX	-	-	-	2
-2	-1	-	-	-	-	1

SIZE: FREQ. BAND: LNA: 1: 2" SQ. 1215 L1/L2 A: WITH LNA; A2: WITH 40 DB LNA WITHOUT REJECTION FILTERS 1.5: 1.9" SQ. 15: L1 ONLY AL: WITH LNA; ALITER 2: 2.6" DIA. P: WITH-OUT LNA 3: 3.5" DIA. PL: WITHOUT LNA and THINNER (HEIGHT = 0.58") 4: MINI ARINC A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE IN 16THS DECIMALS ARE IN 100THS ANGLES ARE IN DEGREES TOLERANCE SIN PER ANS Y14.5 REMOVE ALL BURRS BREAK EXTERNAL SURFACES TO .010 SQUARE THREADS TO 1/8 DIA. DAYS ON A COMMON & .0005 MACHINED SURFACES

ANTCOM CORP. TORRANCE CALIFORNIA
 OUTLINE DRAWING
 L1/L2 ACTIVE or PASSIVE
 GPS ANTENNA
 D 3CVE12G1215A-XRS-1
 SCALE 1/1 SHEET 1 OF 1

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:

CABLE LENGTH: X: NO CABLE S: SMA; RS: R-SMA; P: PINS
CONNECTOR: M: MAG; N: NO MAG; W: MCX; MM: MMCX
COLOR: 1: GLOSS WHITE #17929 PER FED-STD-595B
 2: LUSTERLESS GRAY #36300 PER FED-STD-595B
 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 4: LUSTERLESS BLACK #37038 PER FED-STD-595B

NMO Connector Option is Now Available for Some Antennas