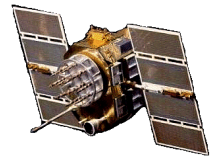




Passive L1/L2 GPS Antenna, P/N: 1.9G1215X-XRS-4 **Rev B**

Low Profile 1.9" Square, Flat/Back Mount Configuration

Suitable for Forming Multiple Element CRPA



ISO 9001:2008/FAA Approved Facility

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

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>

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0.10" (PIN), 0.25" [6.37] (MCX/MMCX), .53 [13.46] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83"[21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

4X 4-40 UNF-2A X 0.100in DEEP

MOUNTING: ADHESIVE

SMA Right Angle Female Con. (OPTION:TNC, TNC Bulkhead,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.

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

P/N: 1.9G1215P-XRS-4

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA
1.9: 1.9" SQ.	15: L1 ONLY	A4: WITH 40 dB LNA
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
4: MINI ARINC		P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: P2; 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
#: CABLE LENGTH (IN)	N: NB; RS: R-SMA	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED

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.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+2.7	+3.1	+1.5	+1.5	+3.3	+4.5
@ 10° Elevation:	-4.4	-1.8	-1.9	-6.7	-3.8	-3.5
@ 20° Elevation:	-2.3	-0.3	+0.6	-5.6	-2.0	-0.8
@ 30° Elevation:	-0.8	+1.4	+1.7	-4.5	-0.5	+1.4
@ 60 - 90° Elevation:	> 2.0	> 3.9	> 2.4	> 0.0	> 2.7	> 2.2
BEAM WIDTH (3dB):	113 Deg.	114 Deg.	143 Deg.	85 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB		2 dB			
LIGHTNING PROTECTION:	DC GROUNDING					

LNA OPTION:

LNA GAIN: (21.0+/-2.0) dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.912 in. [48.56mm] SQ.
 HEIGHT: 0.36 in. [9.02 mm]
 WEIGHT: 2.0 oz. (56.7 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE
 CONNECTOR: SMA RIGHT ANGLE FEMALE (OPTION: SMA, TNC, TNC-Bulkhead, 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-5441, MIL-E-5400, MIL-I-45208A AND MIL-STD-810

1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1
	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
QUANTITY REQD PARTS LIST						

ANTCOM CORP. TORRANCE, CALIFORNIA

1.9" SQUARE, L1/L2 PASSIVE GPS ANTENNA

DRAWN: S. HUYNH
 CHECKED: S. HUYNH
 ENGINEER: S. HUYNH
 APPROVED: S. HUYNH Sep-19-01
 CAD FILE NO: D_3CVE1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS TOLERANCES ARE DECIMALS ANGLES ± 1/64 .XXX ± 1°
 TOLERANCE SYM PER ANSI Y14.6
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILETS R .005 TO R .030
 SCREW THREADS PER MIL-S-8879
 DIA'S ON A COMMON & Z .005
 MACHINED SURFACES ✓
 DO NOT SCALE DRAWING

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas