



FAA Approved Facility

RHCP/LHCP L1/L2GPS Antenna, P/N: 1.9G1215RL-PP-XRS-X Rev B
Dual Linear (V/H) L1/L2GPS Antenna, P/N: 1.9G1215VH-PP-XRS-X Rev B
1.9" Square Configurations with Back Mounting Option

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



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1.91 [48.56] SQ.
 .36 [9.02] (+/-0.010in)
 4xR.50 [R12.70]
 4xR.72 [R18.19]
 .12 [3.05]
 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
 2X.15 [3.77]
 2X .756 [19.20]
 2X 1.512 [38.40]
 2xØ.37 [Ø9.52]
 2X.25 [6.48]
 MOUNTING: ADHESIVE
 SMA Right Angle Female Con. (OPTION:TNC, TNC Bulkhead,N, N-Bulkhead, MCX, MMCX, or Cable) ClearanceHole: 0.4" Dia. 0.52" Dia . for TNC Con. 0.63" Dia. for N Con.

SIZE:
 1: 2" SQ
 1.9: 1.9" SQ
 2: 2.6" DIA
 3: 3.5" DIA
 4: MINI ARINC

FREQ. BAND:
 1215: L1/L2
 15: L1 ONLY

POLARIZATION:
 RL: RHCP/LHCP
 VL: VER/HOR

LNA:
 A: WITH LNA
 AL: WITH LNA/LIMITER
 P: WITHOUT LNA
 PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")

CABLE'S LENGTH
 X: NO CABLE
 M: MAG. N: NO MAG.
 #: CABLE LENGTH(IN)
 R: RIGHT ANGLE CON

CONNECTOR
 S: SMA, RS: SMA-R, P: PINS
 M: MCX, MM: MMCX
 N, NB: N, N-Bulkhead
 T, TB: TNC, TNC-Bulkhead

COLOR
 -1: GLOSS WHITE #17925 PER FED-STD-595B
 -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
 -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP/LHCP	
VSWR:	< 1.5:1	
IMPEDANCE	50 ohms	
ANTENNA GAIN (dBi):	Free Space	3 in G.P.
@ 90° (ZENITH):	+2.7	+4.7
@ 10° Elevation:	-4.4	-1.9
@ 20° Elevation:	-2.3	-0.3
@ 30° Elevation:	-0.8	+1.4
@ 60 - 90° Elevation:	> 2.0	> 3.9
BEAM WIDTH (3dB):	113 Deg.	114 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: 2.3 oz. (65 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC DOME, UV, ABRASION AND SKYDROL RESISTANCE
 CONNECTOR: 0.030" DIA. PIN, 0.100" LONG (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-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

REV	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	ADHESIVE GASKET	12345G-3M-1G	-	-	-	1

ANTCOM CORP. TORRANCE, CALIFORNIA

1.9" SQUARE, L1/L2 PASSIVE RHCP/LHCP GPS ANTENNA

SIZE: 3CVE1
 GAGE NO: 1.9G1215RL-PP-XRS-4
 DRAWING NO: 1.9G1215RL-PP-XRS-4
 REV: B

SCALE: 1/1
 SHEET: 1 OF 1

http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf (Amplifiers/Power Divider/Combiner/Filters)