



FAA Approved Facility

Dual Polarization (RHCP/LHCP) L1/L2 GPS Antenna

P/N: 1.9G1215RL-PP-XRS-X

1.9" Square Configurations with Back Mounting Option

"-PL-" or "-AL-" for Limiter Options for High Power Pulse Protection



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1.91 [48.56] SQ.

4xR.72 [R18.19]

.36 [9.02] (+/-0.010in)

.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)

2X.15 [3.77]

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.

2xØ.37 [Ø9.52]

2X.25 [6.48]

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42±12) MHz			L2: (1227.60±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP/LHCP					
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	+4.7	+3.1	+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					
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: 1.912in.[48.56mm]SQ.
 HEIGHT: 0.36 in. [9.02 mm]
 WEIGHT: 2.3 oz. (65 g)
 FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE THERMOSET PLASTIC RADOME, 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

SIZE	FREQ. BAND	POLARIZATION	LNA
1: 2" SQ	1215 L1/L2	RL RHCP/LHCP	A: WITH LNA
1.9: 1.9" SQ	15: L1 ONLY	VL: VER/HOR	AL: WITH LNA/LIMITER
2: 2.6" DIA			P: WITHOUT LNA
3: 3.5" DIA			PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")
4: MINI ARINC			

ANTCOM CORP. TORRANCE CALIFORNIA

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

ANTCOM PART NUMBER: 1.9G1215RL-PP-XRS-4

SCALE: 1/1 SHEET 1 OF 1

Wide Band GNSS Option Is Available

Antenna Mounts: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf
 Amplifiers/Power Divider/Combiner/Filter: http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf