





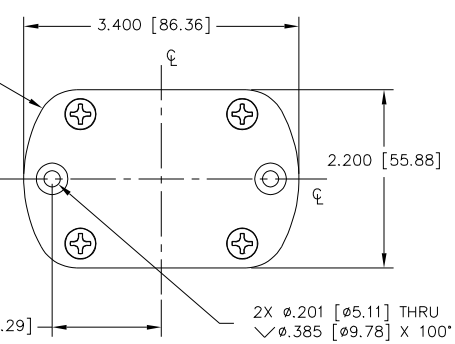
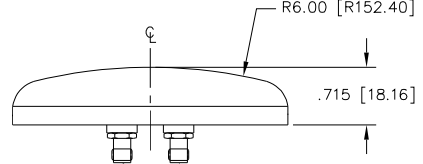
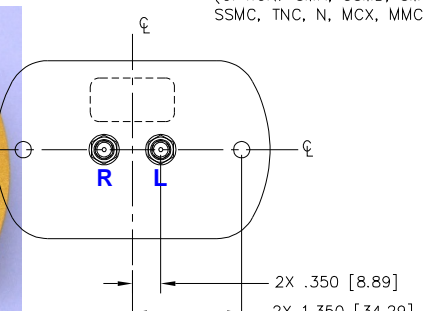
FAA Approved Facility

Dual Polarization (RHCP/LHCP) L1/L2 GPS Antenna, P/N: 4G1215RL-P-XSS-2  
 Dual Polarization (Vertical/Horizontal) L1/L2 GPS Antenna, P/N: 4G1215VH-P-XSS-2  
 Dual Polarization (RHCP/LHCP) L1/L2 GPS/Glonass, Antenna, P/N: G5AntRL-4PSS2  
 2.2in. x 3.4in. X 0.71in. Configurations with Front/Back Mounting Option  
 Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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**P/N: 4G1215RL-P-XSS-2**

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
IMPEDANCE:	50 ohms	50 ohms
ANTENNA GAIN (dBic):	Free Space 16 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+4.6 +0.3	+2.9 +1.8
@ 10° Elevation:	-2.5 -3.1	-1.8 -4.2
@ 20° Elevation:	-1.1 -1.1	+0.7 -2.9
@ 30° Elevation:	+0.5 +0.9	+1.7 -2.0
@ 60-90° Elevation:	> 3.6 +3.1/+0.3	> 2.1 > 0.9 +3.1/+1.9
BEAM WIDTH (3dB):	103 Deg.	120 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	

**LNA OPTION:**

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	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

**MECHANICAL:**

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.71 in. [18.16 mm]  
 WEIGHT: 5.15 oz. (146 g)  
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441F  
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT  
 CONNECTOR: 9in SMB MALE CABLE (OPTION: SMA, SSMB, SMC, SSMC, TNC, N, MCX, MMCX)

**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

QTY	DESCRIPTION	PART NO	FINISH	REV
4	MOUNTING SCREWS for -PL- ONLY: (10-32, 3/4")	MS24693C274	-	2
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	1

**QUANTITY REQD**      **PARTS LIST**

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; RS: R-SMA; P: 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)	SMB, SSMB, SMC, SSMC	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
		5: TAN #1: FS 23446 or 33446, FED-STD-595

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS SHALL BE IN DECIMALS ± 1/64 ± .005 ± .1° TOLERANCE .5M PER AND Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 SOLDER THE PINS PER MIL-S-8839 PINS ON A COMMON 6.20 DIA MACHINED SURFACES ✓ DO NOT SCALE DRAWING

**ANTCOM CORP.** 10888 CALIFORNIA  
 RHCP/LHCP L1/L2 PASSIVE GPS ANTENNA

REV: 1    CASE NO: 4G1215RL-P-XSS-2    NET WT: 146g

SCALE 1/1    SHEET 1 OF 1

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
 NOTES: UNLESS OTHERWISE SPECIFIED:

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