



FAA Approved Facility

RHCP/LHCP L1/L2GPS Antenna, P/N: 1G1215RL-PP-XS-X Rev B

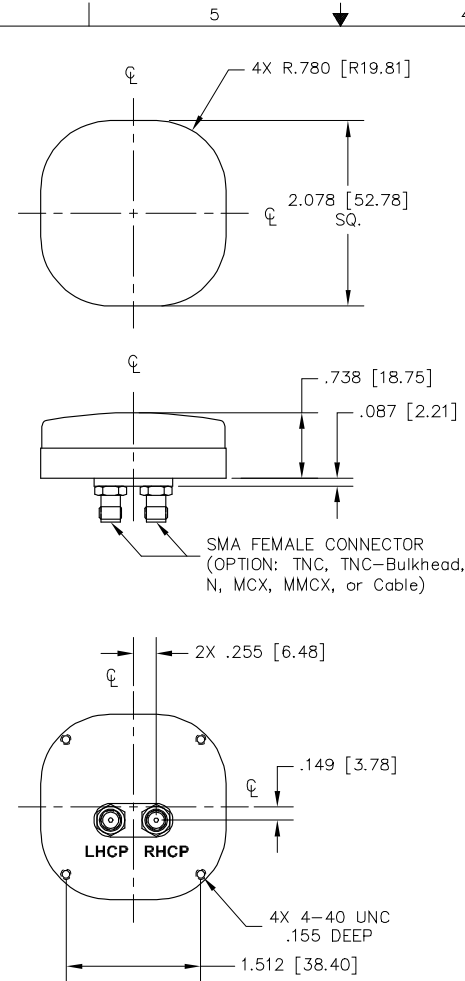
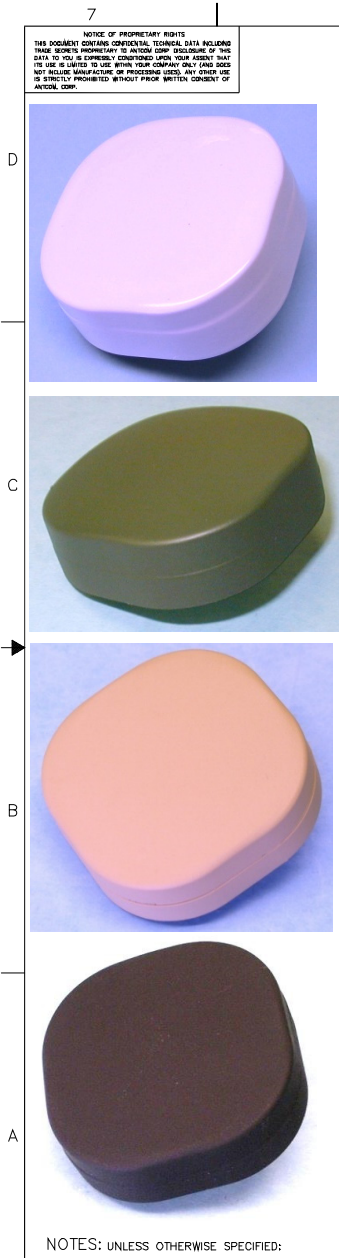
Dual Linear (V/H) L1/L2GPS Antenna, P/N: 1G1215VH-PP-XS-X Rev B

2" Square Configurations with Back Mounting Option

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



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		INITIAL	05/29/01	S.H.
B		HEIGHT	11/28/17	D.R.

ELECTRICAL:		L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz		
FREQUENCY:						
RADIATION PATTERN:		HEMISPHERICAL				
POLARIZATION:		RHCP/LHCP		RHCP/LHCP		
VSWR:		< 1.5:1		< 1.5:1		
IMPEDANCE:		50 ohms		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):	+ 3.7	+ 4.7	+ 3.1	- 1.7	+ 3.3	+ 4.5
@ 10° Elevation:	- 2.9	- 1.8	- 1.9	- 7.3	- 3.8	- 3.5
@ 20° Elevation:	- 1.3	- 0.3	+ 0.6	- 6.2	- 2.0	- 0.8
@ 30° Elevation:	0.0	+ 1.4	+ 1.7	- 5.2	- 0.5	+ 1.4
@ 60 - 90° Elevation:	> 3.0	> 3.9	> 2.4	> - 3.2	> 2.7	> 2.2
BEAM WIDTH (3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB		2 dB			
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN OPTION:	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, (2.5-24V)/<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:	LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm] HEIGHT: 0.738 in. [18.75 mm]
WEIGHT:	2.88 oz. (82 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441F
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	SMA FEMALE (OPTION: TNC, TNC-Bulkhead, N, 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



SIZE:	FREQ. BAND:	POLARIZATION:	LNA:	QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1: 2" SQ.	1215: L1/L2	R: RHCP/LHCP	A: WITH LNA	1	ADHESIVE GASKET	123456-3M-1G	-	-	2
1.9: 1.9" SQ.	1S: L1 ONLY	V: VER: HOR.	AL: WITH LNA/LIMITER	1					1
2: 2.6" DIA.			P: WITHOUT LNA						
3: 3.5" DIA.			PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")						
4: MINI ARINC									

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA: P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: NO MAG,	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DECIMALS ± .010	FRACTIONS ± 1/64	ANGLES ± .1°	TOLERANCE ± M PER ANSI Y14.5	REMOVE ALL BURRS	FINISH ALL EDGES .005 TO .015	SPRUE W/INCREASED PER MIL-C-8879	DAYS ON A CONFORM ± .005	MACHINED SURFACES
DRAWN:	S. Huynh	May-29-06							
ME:	P. TRAN	Nov-28-17							
EE:	S. Huynh	May-29-06							
MF:	R. ROA	Nov-28-17							
QA:	L. DISONGLD	Nov-28-17							
APPROVED:	D. REID	Nov-28-17							

ANTCOM CORP.		TORRANCE, CALIFORNIA	
OUTLINE DRAWING			
L1/L2 ACTIVE or PASSIVE			
RHCP/LHCP GPS ANTENNA			
DATE:	11/28/17	REV:	1
SCALE:	1/1	SHEET:	1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 1G1215RL-PP-XS-1

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