



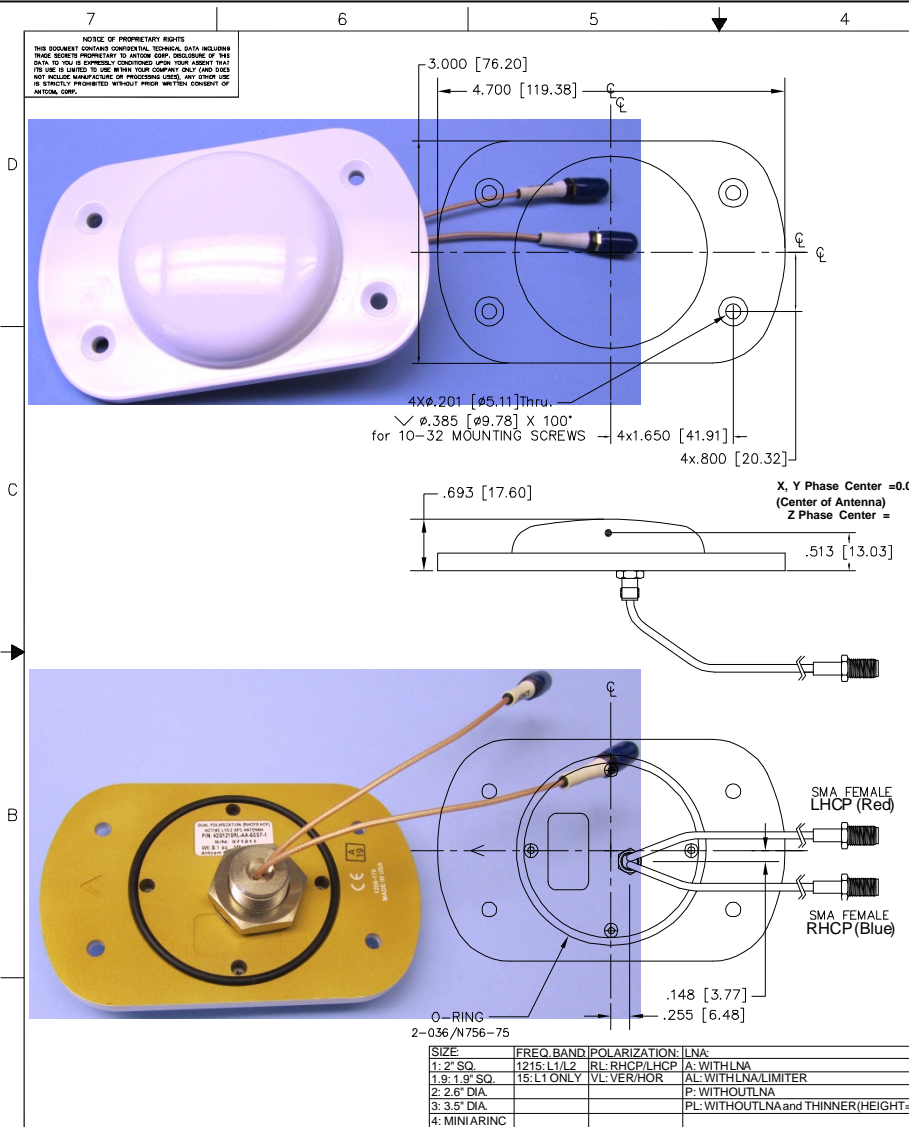
FAA Approved Facility

RHCP/LHCP L1/L2 GPS Antenna, P/N: 42G1215RL-AA-5SSF-1
Dual Linear (V/H) L1/L2 GPS Antenna, P/N: 42G1215VH-AA-5SSF-1
(4.7" x 3.0") 743 Arinc Configuration

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

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP/LHCP	RHCP/LHCP
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space 4 ft G.P.	Free Space 4 ft G.P.
@ 90° (ZENITH):	+4.7	+3.5
@ 10° Elevation:	-1.8	-2.0
@ 20° Elevation:	-0.3	+0.8
@ 30° Elevation:	+1.4	+1.8
@ 60-90° Elevation:	>3.9	>2.7
BEAMWIDTH(3dB):	114 Deg.	139 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	
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	
POWERHANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: WIDTH: 3.00 in. [76.20 mm], LENGTH: 4.700 in. [119.38 mm], HEIGHT: 0.6930 in. [17.60 mm]
WEIGHT: 6.8 oz. (191 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
CONNECTOR: 2x 5in SMA FEMALE CABLES (OPTION: SMA, 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

QUALIFIED TO: FAA TSO-C144, DO-160D: E1-CBX(S)SFXDXSXXXXXX(XCX)(C)

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

QUANTITY	DESCRIPTION	PART NO	FINISH	REV
5				
4	MOUNTING SCREW: (10-32, 1")	MS24693C276		3
1	O-RING	2-036/N756-75		1

P/N: 42G1215RL-AA-5SSF-1

- 2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
- 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: NOMAG	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES ARE ± 1/64 .005 .005 ± 1°

TOLERANCE SYM PER ANSI Y14.5

REMOVE ALL SURF. DEFECTS .005 TO .015 FILETS R .005 TO R .040 SPKR BREAKS PER MIL-S-8879 DITS ON A COMMON C. 2.005

MACHINED SURFACES ✓

DD NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

743 Arinc
RHCP/LHCP ACTIVE L1/L2
GPS ANTENNA

APPROVED: S. HUYNH 01-05-29

DATE: 01-05-29

SCALE: 1/1

SHEET 1 OF 1

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