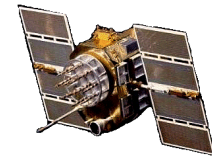




# DAGR's Remote Antenna 1 (RA-1), Active L1/L2 GPS Antenna

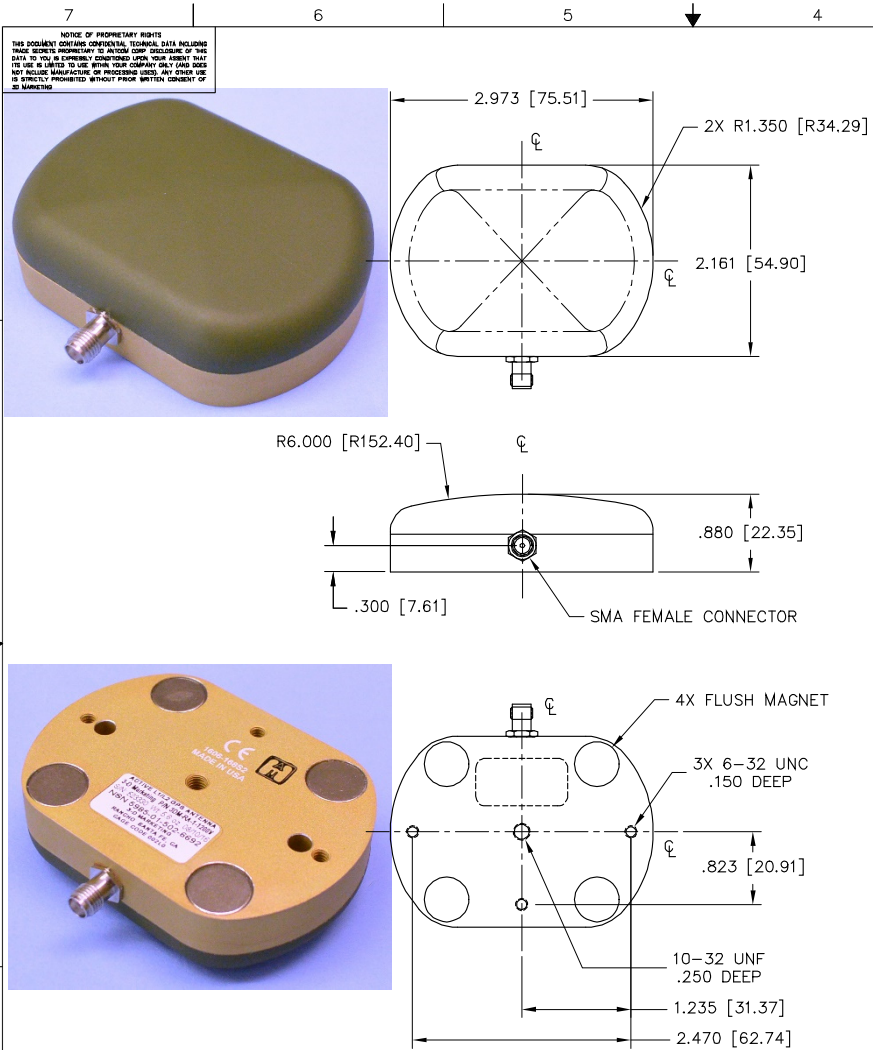
P/N: 4G1215A-XMNS-3-D (-3: Green, -1: White, -5: Tan; -4: Black)



## (2.973" x 2.161") Side Connector Configuration

ISO 9001:2008/FAA Approved Facility    Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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



SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
B		SMALLER FOOT PRINT	06/20/16	S.H.

**ELECTRICAL:**

FREQUENCY:	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2.0:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 4.7
@ 10 ° Elevation:	- 2.1	- 1.8
@ 20 ° Elevation:	- 0.6	- 0.3
@ 30 ° Elevation:	+ 0.9	+ 1.4
@ 60 - 90 ° Elevation:	> 4.0	> 3.9
BEAM WIDTH (3dB):	103 Deg.	114 Deg.
AXIAL RATIO:	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:	(2.5 to 24)Vdc @ (30 to 50)mA	
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz:	< -65 dB	< -65 dB
POWER HANDLING:	1 Watt CW	

**MECHANICAL:**

**SIZE:** WIDTH: 2.161 in. [54.90 mm], LENGTH 2.973 in. [75.51 mm], HEIGHT: 0.880 in. [22.34 mm]

**WEIGHT:** 6.2 oz. (175.7 g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F

**MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

**CONNECTOR:** SMA FEMALE

**ENVIRONMENTAL:**

**TEMPERATURE:** OPERATING: -67 °F TO +185 °F [-55 °C TO +85 °C] STORAGE: -71 °F TO +185 °F [-57 °C TO +85 °C]

**ALTITUDE:** 70,000 ft.

**VIBRATION:** > 30 G's

**LEAKAGE:** HERMETICALLY SEALED

**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

**P/N: 4G1215A-XMNS-3-D**

CONNECTOR:	COLOR:
S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
N, NB: N, N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	-5: DESERT TAN #33446 PER FED-STD-595B

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

1	DESCRIPTION	PART NO.	MATERIAL	FINISH	THRU
QUANTITY REQD	PARTS LIST				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .010 .015 ± 1°					
TOLERANCE .5W PER ANS Y14.5 BREAK EXTERNAL EDGES .005 TO .015 .015 TO .030 .030 TO .0625 .0625 TO .125 .125 TO .250 .250 TO .500 .500 TO 1.000 MACHINED SURFACES					
DO NOT SCALE DRAWING					
ANTCOM CORP. TORRANCE CALIFORNIA		OUTLINE DRAWING L1/L2 ACTIVE, OR PASSIVE GPS ANTENNA			
D 0020		4G1215A-XMNS-3-D		B	
SCALE 1/1		SHEET 1 OF 1			

NMO Connector Option is Now Available for Some Antennas