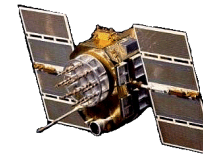




# DAGR's Remote Antenna 1 (RA-1)

Active L1/L2 GPS Antenna, P/N: 2DG1215A-MNS-3 Rev A (P/N: 3DM-RA-1-1200 Rev A)

2.6" Diameter, Flat Strong Magnetic (20lbs) Mount Configurations



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>

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3x 6-32 UNC-2B x 0.150 Deep For Optional Mounting

4 x Flush Magnets

10-32 UNF-2B X 0.250 Deep

SMA-F CONNECTOR

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION  
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY:	L1: (1575.42 ±15) MHz		L2: (1227.60 ±15) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	< 2.0:1					
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):	+5.0	+4.7	+3.1	+0.7	+3.3	+4.5
@ 10° Elevation:	-2.1	-1.8	-1.9	-5.8	-3.8	-3.5
@ 20° Elevation:	-0.6	-0.3	+0.6	-4.3	-2.0	-0.8
@ 30° Elevation:	+0.9	+1.4	+1.7	-3.4	-0.5	+1.4
@ 60 - 90° Elevation:	> 4.0	> 3.9	> 2.4	> -0.9	> 2.7	> 2.2
BEAM WIDTH (3dB):	103 Deg.	114 Deg.	143 Deg.	94 Deg.	106 Deg.	74 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:	(2.5 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: DIAMETER: 2.71 in. [ 68.81 mm]  
HEIGHT: 0.80 in. [20.44mm]

WEIGHT: 4.00 oz. [113 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: SMA FEMALE or TNC FEMALE (See Below Part Number)  
(OPTION: TNC, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	12345G-3M-2G			3
1					2
1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO DECIMALS ANGLES ± 1/64 DECIMALS ± 0.010 ± 1.5° MACHINED SURFACES V

TOLERANCE SURF PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 SREWS PER MIL-S-8879 OR AS A CONDITION OF THIS DRAWING

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

L1/L2 ACTIVE GPS ANTENNA (DAGR Remote Antenna 1, RA-1)

DJ3CVE1 2DG1215A-MNX-X A

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas