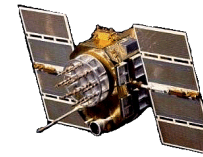




DAGR's Remote Antenna 1 (RA-1)

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 . <http://www.antcom.com>

MECHANICAL:

SIZE: 2.71 in. [68.81 mm] DIAMETER

HEIGHT: 0.76 in. [19.42 mm]

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 (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: MIL-STD-883C, MIL-STD-883D, MIL-STD-883E, MIL-STD-883F, MIL-STD-883G, MIL-STD-883H, MIL-STD-883I, MIL-STD-883J, MIL-STD-883K, MIL-STD-883L, MIL-STD-883M, MIL-STD-883N, MIL-STD-883O, MIL-STD-883P, MIL-STD-883Q, MIL-STD-883R, MIL-STD-883S, MIL-STD-883T, MIL-STD-883U, MIL-STD-883V, MIL-STD-883W, MIL-STD-883X, MIL-STD-883Y, MIL-STD-883Z, MIL-STD-883AA, MIL-STD-883AB, MIL-STD-883AC, MIL-STD-883AD, MIL-STD-883AE, MIL-STD-883AF, MIL-STD-883AG, MIL-STD-883AH, MIL-STD-883AI, MIL-STD-883AJ, MIL-STD-883AK, MIL-STD-883AL, MIL-STD-883AM, MIL-STD-883AN, MIL-STD-883AO, MIL-STD-883AP, MIL-STD-883AQ, MIL-STD-883AR, MIL-STD-883AS, MIL-STD-883AT, MIL-STD-883AU, MIL-STD-883AV, MIL-STD-883AW, MIL-STD-883AX, MIL-STD-883AY, MIL-STD-883AZ, MIL-STD-883BA, MIL-STD-883BB, MIL-STD-883BC, MIL-STD-883BD, MIL-STD-883BE, MIL-STD-883BF, MIL-STD-883BG, MIL-STD-883BH, MIL-STD-883BI, MIL-STD-883BJ, MIL-STD-883BK, MIL-STD-883BL, MIL-STD-883BM, MIL-STD-883BN, MIL-STD-883BO, MIL-STD-883BP, MIL-STD-883BQ, MIL-STD-883BR, MIL-STD-883BS, MIL-STD-883BT, MIL-STD-883BU, MIL-STD-883BV, MIL-STD-883BW, MIL-STD-883BX, MIL-STD-883BY, MIL-STD-883BZ, MIL-STD-883CA, MIL-STD-883CB, MIL-STD-883CC, MIL-STD-883CD, MIL-STD-883CE, MIL-STD-883CF, MIL-STD-883CG, MIL-STD-883CH, MIL-STD-883CI, MIL-STD-883CJ, MIL-STD-883CK, MIL-STD-883CL, MIL-STD-883CM, MIL-STD-883CN, MIL-STD-883CO, MIL-STD-883CP, MIL-STD-883CQ, MIL-STD-883CR, MIL-STD-883CS, MIL-STD-883CT, MIL-STD-883CU, MIL-STD-883CV, MIL-STD-883CW, MIL-STD-883CX, MIL-STD-883CY, MIL-STD-883CZ, MIL-STD-883DA, MIL-STD-883DB, MIL-STD-883DC, MIL-STD-883DD, MIL-STD-883DE, MIL-STD-883DF, MIL-STD-883DG, MIL-STD-883DH, MIL-STD-883DI, MIL-STD-883DJ, MIL-STD-883DK, MIL-STD-883DL, MIL-STD-883DM, MIL-STD-883DN, MIL-STD-883DO, MIL-STD-883DP, MIL-STD-883DQ, MIL-STD-883DR, MIL-STD-883DS, MIL-STD-883DT, MIL-STD-883DU, MIL-STD-883DV, MIL-STD-883DW, MIL-STD-883DX, MIL-STD-883DY, MIL-STD-883DZ, MIL-STD-883EA, MIL-STD-883EB, MIL-STD-883EC, MIL-STD-883ED, MIL-STD-883EE, 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MIL-STD-883YP, MIL-STD-883YQ, MIL-STD-883YR, MIL-STD-883YS, MIL-STD-883YT, MIL-STD-883YU, MIL-STD-883YV, MIL-STD-883YW, MIL-STD-883YX, MIL-STD-883YY, MIL-STD-883YZ, MIL-STD-883ZA, MIL-STD-883ZB, MIL-STD-883ZC, MIL-STD-883ZD, MIL-STD-883ZE, MIL-STD-883ZF, MIL-STD-883ZG, MIL-STD-883ZH, MIL-STD-883ZI, MIL-STD-883ZJ, MIL-STD-883ZK, MIL-STD-883ZL, MIL-STD-883ZM, MIL-STD-883ZN, MIL-STD-883ZO, MIL-STD-883ZP, MIL-STD-883ZQ, MIL-STD-883ZR, MIL-STD-883ZS, MIL-STD-883ZT, MIL-STD-883ZU, MIL-STD-883ZV, MIL-STD-883ZW, MIL-STD-883ZX, MIL-STD-883ZY, MIL-STD-883ZZ

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42±15) MHz		L2: (1227.60±15) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	< 2.0:1		< 2.0:1			
IMPEDANCE:	50 ohms		50 ohms			
ANTENNA GAIN (dBi):	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
BEAMWIDTH(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: 2.71 in. [68.81 mm] DIAMETER

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ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

1	ADHESIVE GASKET	12345G-3M-2G	-	-	5
1			-	-	3
1			-	-	2
1			-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS	DECIMALS	ANGLES
2/16	.125	2°
1/64	.015625	30°

ANTCOM CORP. TORRANCE, CALIFORNIA

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

3D3CE1 2DG1215A-MNS-X | A

SCALE 1/1 SHEET 1 OF 1