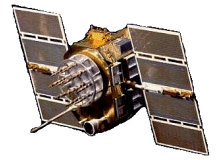




ISO 9001:2008/FAA Approved Facility

DAGR's Remote Antenna 1 (RA-1), Active L1/L2 GPS Antenna
 P/N: 2DG1215A-MNT-3 Rev B for TNC Connector
 P/N: 2DG1215A-MNS-3 Rev B for SMA Connector
 2.6" Diameter, Flat Strong Magnetic (20lbs) Mount Configurations
 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>

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Ø2.71 [Ø68.81]

R6.00 [R152.40]

.92 [23.48] for TNC, .80 [20.44] for SMA

.82 [20.91]

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

4 x Flush Magnets

1.23 [31.37]

2.47 [62.74]

10-32 UNF-2B X 0.250 Deep

SIZE: FREQ. BAND: LNA: 1: 2" SQ. 1215; L1/L2 A: WITH LNA 1.5: 1.9" SQ. 15; L1 ONLY AL: WITH LNA/LIMITER 2: 2.6" DIA. P: WITHOUT LNA 3: 3.5" DIA. A2: WITH 20 LNA WITHOUT REJECTION FILTERS. 4: MINI ARINC A: WITH 40 LNA WITHOUT REJECTION FILTERS.

P/N: 2DG1215A-MNX-X

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH: CONNECTOR: COLOR: X: NO CABLE S: SMA; RS: R-SMA; P: PINS -1: GLOSS WHITE #17925 PER FED-STD-595B MN: FLUSH MAGNET M: MCX; MM: MMCX -2: LUSTERLESS GRAY #36320 PER FED-STD-595B F: CABLE LENGTH (IN) N: NE; N: N-Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B R: RIGHT ANGLE CON. T: TNC; TB: TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO 16 DECIMALS ANGLES ± 1/64 .0005 .010 ± .2° TOLERANCE 5W PER ANSI Y14.5 REMOVE ALL SHARP BREAK EXTERNAL EDGES .005 TO .015 SREW HEADS PER MIL-S-8879 DIA'S ON A CONFORM 12° MACHINED SURFACES V DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 L1/L2 ACTIVE GPS ANTENNA (DAGR Remote Antenna 1, RA-1)
 D13CVE1 2DG1215A-MNX-X B
 SCALE 1/1 SHEET 1 OF 1

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	REVISIONS	
				APPROVED	S.H.
A		STRONGER MAGNETS	April/10/07		S.H.
B		THICKER BASE FOR TNC	Oct-01-08		S.H.

ELECTRICAL:

	L1: (1575.42 ±15) MHz			L2: (1227.60 ±15) MHz		
	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 2.0:1			< 2.0:1		
IMPEDANCE:	50 ohms			50 ohms		
ANTENNA GAIN (dBic):						
@ 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] for SMA; 0.92in [23.48mm] for TNC

WEIGHT: 4.00 oz. [113 g] for SMA; 5.40 oz. [153 g] for TNC

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

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
					5
1	ADHESIVE GASKET	12345G-3M-2G			3
1					2
1					1
-2					

NMO Connector Option is Now Available for Some Antennas