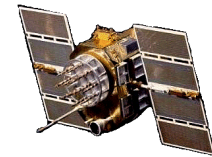




DAGR's Remote Antenna 1 (RA-1)

Active L1/L2 GPS Antenna, 4G1215A-XMNT-1 Rev A (P/N: 3DM-RA-1-1200V Rev A)
 (3.4" x 2.2") Side Connector, Mini Arinc 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>

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SPECIFICATIONS

ELECTRICAL:

	REVISIONS					
	ZONE	REV	DESCRIPTION	DATE	APPROVED	
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 (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: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.91 in. [23.18 mm]
WEIGHT: 7.49 oz. (212.4 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA FEMALE

ENVIRONMENTAL:

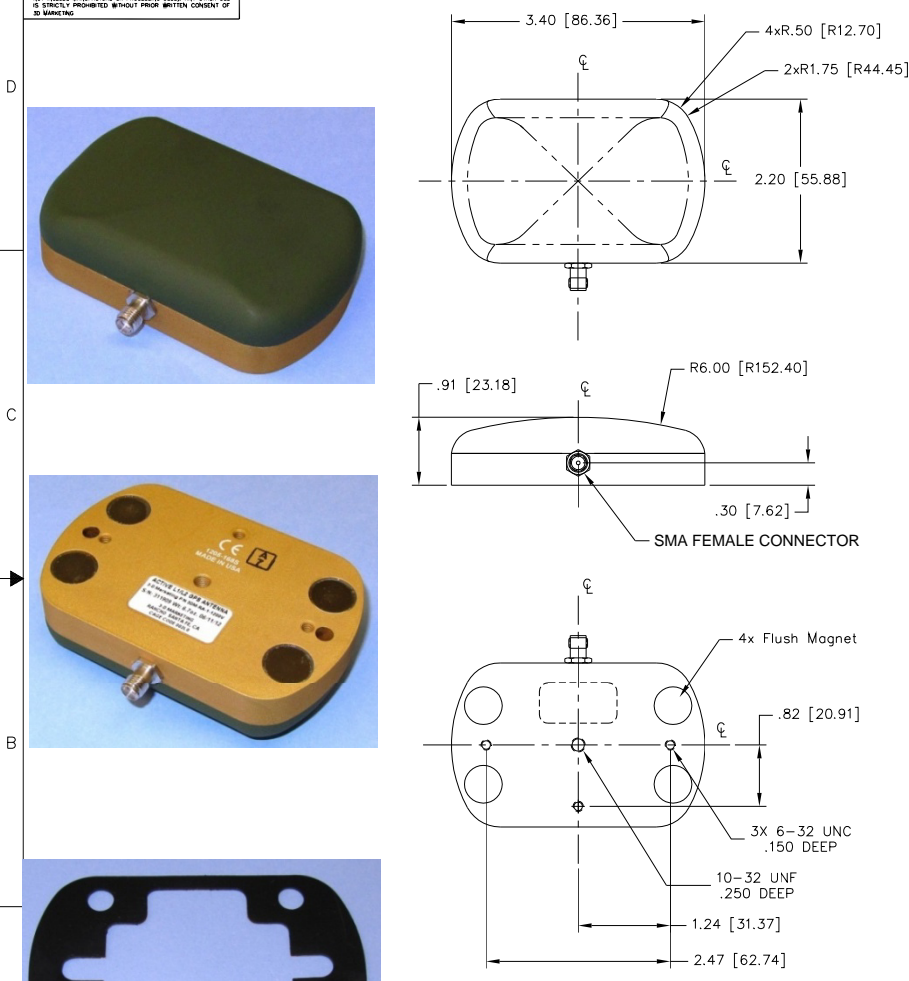
TEMPERATURE: OPERATING: -67 °F TO +185 °F [-55 °C TO +85 °C]
 STORAGE: -71 °F TO +185 °F [-57 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

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



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

QUANTITY REQD	DESCRIPTION	PART NO.	PARTS LIST	MATERIAL	FINISH	ITEM NO.
1	ADHESIVE GASKET	Magnet-Cover - 4G (Item 541-4G)				1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		3D Marketing CALIFORNIA	
FRACTIONS ± 1/64	DECIMALS ± .005	ANGLES ± 1°	
TOLERANCE SURF PER ANSI Y14.5	REMOVE ALL BURS	ORIGINAL DRAWN S. HUYNH Jan-06-01	OUTLINE DRAWING L1/L2 ACTIVE, OR PASSIVE GPS ANTENNA
PREL. EXTERNAL EDGES .005 TO .015	SAFETY INCREASE PER MIL-S-8879	ORIGINAL DESIGNED S. HUYNH Jan-06-01	
60° S IN COMMON ± .005	MACHINED SURFACES ± .005	UPDATE DRAWN PHIL TRAN June-08-12	
DO NOT SCALE DRAWING		APPROVED S. HUYNH June-08-12	
CAD FILE NO.		DATE	REV
		D 002L0	3DM-RA-1-1200V A
		SCALE 1/1	SHEET 1 OF 1