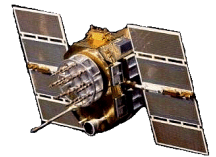




Active or Passive L1/L2 GPS Antennas, (3.4" x 2.2") Mini Arinc Configurations
 DAGR's Remote Antenna 2 (RA-2), P/N: 4G1215A-XTBC-3 Rev C (P/N: 3DM-RA-2-2400 Rev A)
 4G1215A27-XTBC-3



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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4xR.50 [R12.70]
2xR1.75 [R44.45]

3.40 [86.36]
 2.00 [50.80]
 1.66in
 2.20 [55.88]

4xø.14 [ø3.56] Thru.
 ø0.31 [7.9] X 82"
 for 6-32 Mounting Screws

ø.71 [18.16]
 Spherical R6.00 [R152.40]
 R.375 [R9.52] (BLEND)

0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA),
 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

O-Ring

TNC BULKHEAD CONNECTOR
 (OPTION: TNC, SMA, N, N Bulkhead
 MCX, MMCX, or Cable)
 Clearance Hole: 0.4" Dia.
 for SMA, MCX, & MMCX Con.
 0.52" Dia. for TNC Con.
 0.63" Dia. for N Con.

NAMEPLATE
 APPROXIMATE LOCATION

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A1: with +33dB LNA; A2: with 20 dB LNA; A27: with +27 dB LNA
1.5: 1.9" SQ.	15: L1 ONLY	A4: with +40 dB LNA; AL: WITH LNA/LIMITER
2: 2.8" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and THINNER (HEIGHT = 0.81")
4: MINI ARINC		

Example of P/N: 4G1215A-XTBC-3

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; RS: R-SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N-NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
W: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37036 PER FED-STD-595B

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. O-RING, AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 2:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space 16 in G.P.	4 ft G.P. Free Space 16 in G.P. 4 ft G.P.
@ 90 ° (ZENITH):	+4.6 +0.3 +2.9	+1.8 +1.9 +5.3
@ 10 ° Elevation:	-2.5 -3.1 -1.8	-4.2 -3.1 -2.3
@ 20 ° Elevation:	-1.1 -1.1 +0.7	-2.9 -1.1 +0.4
@ 30 ° Elevation:	+0.5 +0.9 +1.7	-2.0 +0.5 +2.3
@ 60 - 90 ° Elevation:	> 3.6 +3.1+ 0.3 > 2.1	> 0.9 +3.1+ 1.9 > 3.2
BEAM WIDTH (3dB):	103 Deg. 120 Deg. 146 Deg.	108 Deg. 120 Deg. 74 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:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/≤50mA	
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz	< -65 dB	
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 0.72 in. [18.16 mm], 0.61" [15.49] (Optional for Passive)

WEIGHT: 5.15 oz. (146 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: TNC FEMALE BULKHEAD
 (OPTION: SMA, TNC Bulkhead, N, N Bulkhead 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

QTY	DESCRIPTION	PART NO	FINISH	ITEM NO
4	MOUNTING SCREWS for -PL- ONLY: (6-32, 3/4")	91500A151	-	5
4	MOUNTING SCREW: (6-32, 1")	91500A153	-	4
1	O-RING	2-031/N756-75	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO BE SHOWN AS ANGLES ± 1/64 0.001 0.005 ± 1"

TOLERANCE SW PER ANSI #14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 SMOOTH ALL SURFACES TO 320 SCREW THREADS PER MIL-S-8879 DIA'S ON A CONFORM TO 2005 MACHINED SURFACES V

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 OUTLINE DRAWING
 L1/L2 ACTIVE, OR PASSIVE
 GPS ANTENNA
 D 3CVE14G1215A-XTBC-3C
 SCALE: 1/1 SHEET 1 OF 1