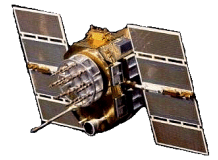




ISO 9001:2008/FAA Approved Facility

Active L1 GPS Antenna P/N: 2DG15A-MNX-X
 P/N: 2DG15A-MNT-4 Rev B for TNC Connector
 And P/N: 2DG15A-MNS-4 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, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 2.5	+ 3.6
@ 10 ° Elevation:	- 2.3	- 2.9	- 1.7
@ 20 ° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30 ° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:	> 4.2	+4.7/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHz:	-45 dB / -70 dB		
@ (-100/+100) MHz:	< -65 dB		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)		

MECHANICAL:

SIZE: DIAMETER: 2.71 in. [68.81 mm]
 HEIGHT: 0.76 in. [19.42mm] for SMA; 0.88in [22.47mm] 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)
 OPTIONS: 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

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

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ	1215: L1/L2	A: WITH LNA
1.9: 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		A4: WITH 40 LNA WITHOUT REJECTION FILTERS.

P/N: 2DG15A-MNT-4

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; RS: R-SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
MIN. FLUSH MAGNET	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: 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

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

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .xxx .005 ± .1°</p> <p>TOLERANCE SWM PER ANSI Y14.5 REMOVE ALL BURRS BREAK ALL SHARP EDGES .005 TO .015 FILE TO .002 TO .004 SIZE IN THICKS PER MIL-S-8879 DITS ON A COMMON ± .005 MACHINED SURFACES .25</p> <p>DO NOT SCALE DRAWING</p>	<p>3D Marketing CALIFORNIA</p> <p>L1 ACTIVE GPS ANTENNA (DAGR Remote Antenna)</p> <p>DATE: 020210 DRAWN BY: S. HUYNH 11-27-13 CHECKED BY: S. HUYNH 11-27-13 APPROVED BY: S. HUYNH 11-27-13</p> <p>SCALE: 1/1</p>
--	---

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

NMO Connector Option is Now Available for Some Antennas