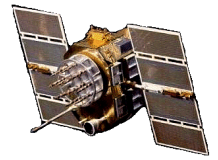




Active L1 or L1/L2 GPS & Active XM Antenna


P/N: 3G121523RL-AA-XTT-1: 3.5" Diameter, Conformal Configurations



ISO 9001:2008/FAA Approved Facility 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>

7		6		5		4		3		1	
NOTICE OF PROPRIETARY RIGHTS										REVISIONS	
ZONE	REV	DESCRIPTION	DATE	APPROVED							



MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.888 in. [23 mm]

WEIGHT: 9.2 oz. (261g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE
(OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead,
MCX, MMCX, SMP, BNC, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F to +185 °F [-55 °C to +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

FEDERAL & MILITARY SPECIFICATIONS:

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

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz	XM: (2338.75 +/- 10) MHz
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP	RHCP	LHCP
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+ 5.0	+ 3.1	+ 0.7
@ 10 ° Elevation:	- 2.1	- 1.9	- 5.8
@ 20 ° Elevation:	- 0.6	+ 0.6	- 4.3
@ 30 ° Elevation:	+ 0.9	+ 1.7	- 3.4
@ 60 - 90 ° Elevation:	> 4.0	> 2.4	> - 0.9
BEAM WIDTH (3dB):	103 Deg.	143 Deg.	74 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB	35 dB	33 dB
LNA NOISE FIGURE:	2 dB	2 dB	2 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsecond Pulse (-AL-)		

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CONFIGURATION: FREQ. BAND: GPS/W/S/L LNA: CABLE'S LENGTH: GPS/IRIDIUM/W/S/L CON: COLOR:

1: 2" SQ. (FLAT) 1625: TX/RX A: WITH LNA X: NO CABLE S: SMA; P: PINS -1: GLOSS WHITE #17925 PER FED-STD-595B

1.9: 1.9" SQ. (FLAT) 25: RX ONLY P: WITHOUT LNA M: WITH MAG. MOUNT N: MCX; MM: MMCX -2: LUSTERLESS GRAY #36320 PER FED-STD-595B

2: 2" DIA. (FLAT) 16: TX ONLY #: CABLE LENGTH (IN) N: N; NB: N-Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B

3: 3.5" DIA. (FLAT) 151623: L1/L2 GPS/XM (SIRIUS) R: RIGHT ANGLE CON. T: TNC; TB: TNC- Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

4: MINI ARINC (FLAT) 121523: L1/L2 GPS/IRIDIUM/XM

53: (HELIX ROD) 151615: GPS/IRIDIUM/W/S/L

5B: (HELIX BLADE)

3D: (HELIX HANDHELD)

QUANTITY REQUIRED

DESCRIPTION	PARTS LIST	PART NO	FINISH	ITEM NO.
4	MOUNTING SCREWS: 10-32, 1", Item 579	J507C1032R16	-	3
4	WASHER, CUSTOM C'SINK	3G15P1001-6		2
1	GASKET	3G15P1001-3G		1

UNLESS OTHERWISE SPECIFIED

FRACTIONS: DECIMALS: ANGLES:

TOLERANCE: ± 1/64 ± .015 ± 1°

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILET R .005 TO R .010

SCREW THREADS PER MIL-E-8879

DAYS ON A COMMON 1:2:000

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

3.5" Dia., Active L1L2-GPS & Active XM ANTENNA

ENGINEER: S. HUYNH

APPROVED: S. HUYNH

DATE: Oct-24-11

SCALE: 1/1

SHEET: 1 OF 1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas