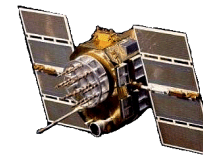




Active L1 GPS Antenna, P/N: 3G15A-XXR-X

3.5" Diameter, Pipe Mount Configuration



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>

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MECHANICAL:
SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.75 in. [18.97 mm] (for Active), 0.58" [14.73] (Passive)
WEIGHT: 7.90 oz. (224 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: SMA FEMALE (OPTION: TNC, 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 SEALED
FEDERAL & MILITARY SPECIFICATIONS: FAA TSO-C144, DO-160D, D0-220, MIL-C-35441, MIL-E-5400, MIL-145208A, MIL-STD-810, AND SAE J1455
DESIGN TO: FAA TSO-C144, DO-160D, D0-220, MIL-C-35441, MIL-E-5400, MIL-145208A, MIL-STD-810, AND SAE J1455
ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

QUANTITY REQUIRED

DESCRIPTION	PART NO	REQ
0-Ring or Gasket	2-031/N756-75 or 3G15P1001-3G	5
Antenna Mount	MTR-1	4
MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	3
WASHER, CUSTOM C'SINK	3G15P1001-7	2
ADHESIVE GASKET	12345G-3M-3G	1

PARTS LIST

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE 1/64 ANGLES ARE ± 1° TOLERANCE 0.010 PER ANSI Y14.5 UNLESS OTHERWISE SPECIFIED BREAK EXTERNAL EDGES TO 0.015 SIZE 0.005 PER MIL-C-8879 0.010 ON A CORNER & 0.005 MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA
3.5" Dia.
L1 ACTIVE, OR PASSIVE
GPS ANTENNA
D13CVE1 | 3G15X-XXR-X | A
SCALE 1/1 | SHEET 1 OF 1

SPECIFICATIONS

ELECTRICAL:

PARAMETER	VALUE
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):	+ 5.4 + 2.2 + 4.6
@ 10 ° Elevation:	- 1.3 - 2.4 - 1.0
@ 20 ° Elevation:	+ 0.4 - 0.3 + 1.4
@ 30 ° Elevation:	+ 1.8 + 1.7 + 1.5
@ 60 - 90 ° Elevation:	> 4.5 +4.6/+2.2 > 2.7
BEAM WIDTH (3dB):	109 Deg. 115 Deg. 136 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING
LNA GAIN:	33 dB
LNA NOISE FIGURE:	2.2 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-)

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SCALE 1/1 | SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas