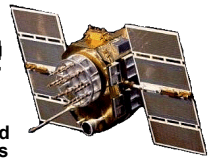


Active L1 GPS Antenna, P/N: 3G15A-XX-X-C
 Also Known as **P/N: 3G15A-XT-1-NC** or **P/N: ANT-35C1GA-TW-SS-N**
TSO Cert P/N: 3GOXX16A4-XTR-1-3



FAA Approved
TSO Antennas



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>

NOTICE OF PROPRIETARY RIGHTS
 THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES NOT INCLUDE REPRODUCTION OR PROVISIONAL USE. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

MECHANICAL:
 SIZE: DIAMETER: 3.50 in. [88.90 mm]
 HEIGHT: 0.690 in. [17.53 mm] (for Active), 0.58" [14.73] (for Passive)
 WEIGHT: 6.5 oz. (184.3 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDIUM PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
 CONNECTOR: TNC FEMALE
 (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 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

QTY	DESCRIPTION	PART NO.	REV.
4	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12, or 93085A831	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-70	3
1	O-Ring, or GASKET	2-031/N756-75, OR 3G15P1001-3G	1

SIZE | **FREQ BAND** | **LNA**
 1: 2" SQ | 1215, L1/L2 | A: WITH 33 dB LNA, A2: WITH 20 dB LNA, A4: WITH 40 dB LNA
 1.9: 1.9" SQ | 15: L1 ONLY
 2: 2.6" DIA | P: WITHOUT LNA
 3: 3.5" DIA
 4: MINIARINC

CABLE LENGTH | **FEMALE CONNECTOR** | **COLOR**
 X: NO CABLE | S: SMA, RS: R-SMA, P: PINS | -1: GLOSS WHITE #17925 PER FED-STD-595B
 M: MAG, N: NOMAG | 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: TB: TNC, TNC-Bulkhead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 .001 ± .010
 .005 ± .005 ± .010
 TOLERANCE SIM PER ANS Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL CORNERS .005 TO .015
 FILED IN .005 TO R .030
 DRILL THROUGH FOR .005 ± .005
 DAT'S ON A COMMON PLATE .005 ± .005
 MACHINED SURFACES
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
 3.5" Dia.
 L1 ACTIVE GPS ANTENNA
 D 3CVE1 3G15A-XT-1-C
 SCALE 1/1 SHEET 1 OF 1

SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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):	+ 5.4 + 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/+22 > 2.7
BEAMWIDTH(3dB):	109 Deg. 115 Deg. 136 Deg.
AXIAL RATIO:	2 dB
LIGHTNING PROTECTION:	DC GROUNDING

LNA OPTION

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-)

P/N: 3G15A-XT-1-C

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