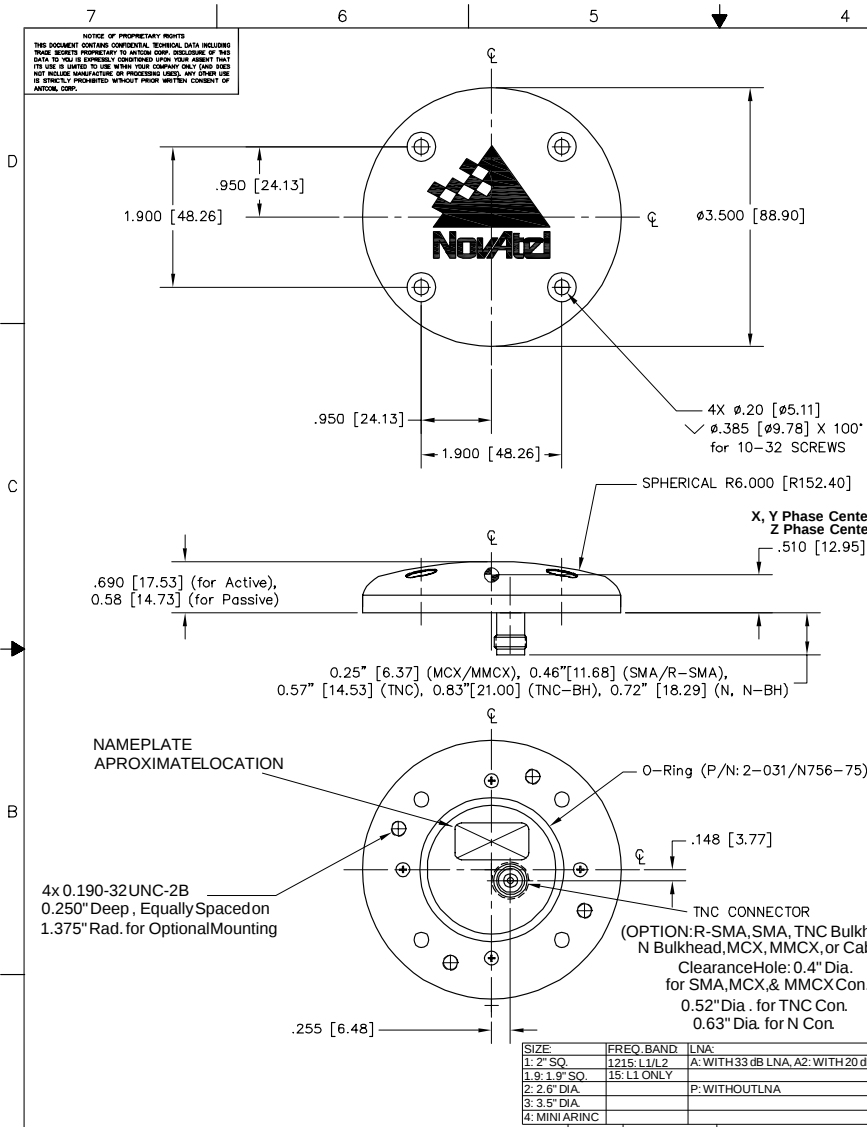




3.5" Dia. Active L1 GPS Antenna, P/N: 3G15A-XT-1-N (GPS/ANT-536/536-C) 3.5" Dia. Front/Back Mount Configuration

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				REVISIONS		DATE
ELECTRICAL:				ZONE	REV	DESCRIPTION
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-)				

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 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 (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, DO-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 NO
4	MOUNTING SCREWS: 10-32, 3/4"	J507C1032R12, or 93085A831	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-70	3
1	0-Ring, or GASKET	2-031/N756-75, OR 3G15P1001-3G	1
-2	-1		

PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .005 ± .005 ± .1°	ANTCOM CORP. TORRANCE, CALIFORNIA
TOLERANCE 5% PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .020 DAYS OR BY PRODUCTION #343-8879 MACHINED SURFACES 125	CHECKED M. BOAS 01-05-29 DRAWN APPROVED S. HUYNH 01-05-29 GAP FILE NO
DO NOT SCALE DRAWING	SCALE 1/1

P/N: 3G15A-XT-1-N			
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" DIA.		P: WITHOUT LNA	
3.3" DIA.			
4: MINI ARINC			
CABLE LENGTH			
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	
#: 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	
FEMALE CONNECTOR:			
COLOR			
-1: GLOSS WHITE #17925 PER FED-STD-595B			
-2: LUSTERLESS GRAY #36320 PER FED-STD-595B			
-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B			
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B			

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED: