



ISO 9001:2008/FAA Approved Facility

Active L1/L2 GPS Antennas, P/N: 3G1215A-XX-X

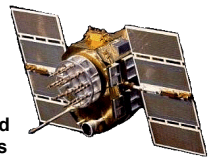
P/N: 3G1215A-XT-1 or P/N: ANT-35C2GA-TW TSO Cert P/N: 3GOXX16A4-XTR-1-1

P/N: 3G1215A-XS-4, P/N: 3G1215A-XS-3

3.5" Diameter Configurations, Front/back Mount



FAA Approved TSO Antennas



ANTCOM CORPORATION . 367 Van Ness Way, #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. REPRODUCTION OF THIS DATA IS FOR YOUR OWN USE ONLY. ANTCOM CORP. ACCEPTS NO LIABILITY FOR USE OR MISUSE OF THIS INFORMATION. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

PHYSICAL DIMENSIONS:
 Diameter: $\phi 3.530$ [89.66]
 Height: $.727$ [18.47]
 Mounting holes: $4 \times \phi 0.20$ [5.11] Thru. $\phi .385$ [9.78] X 100°
 Nameplate location: $4 \times 0.190-32$ UNC-2B, 0.250" Deep, Equally Spaced on 1.375" Rad. for Optional Mounting
 SMA Connector: $0.25"$ [6.37] (MCX/MMCX), $0.46"$ [11.68] (SMA/R-SMA), $0.57"$ [14.53] (TNC), $0.83"$ [21.00] (TNC-BH), $0.72"$ [18.29] (N, N-BH)
 O-Ring: 0-Ring (P/N: 2-031/N756-75)
 SMA Connector Clearance Hole: 0.4" Dia. for SMA, MCX, & MMCX Con. 0.52" Dia. for TNC Con. 0.63" Dia. for N Con.

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBi):	Free Space	16 in G.P., 4 ft G.P.
@ 90° (ZENITH):	+4.7	+3.5
@ 10° Elevation:	-1.8	-2.0
@ 20° Elevation:	-0.3	-1.0
@ 30° Elevation:	+1.4	+1.8
@ 60-90° Elevation:	> 3.9	> 2.8
BEAM WIDTH (3dB):	114 Deg.	106 Deg.
AXIAL RATIO:	2 dB	
LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	33 dB	35 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/50mA	
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz:	< -65 dB	< -65 dB
POWER HANDLING:	Passive: 200w, Active: 1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL)	

MECHANICAL:

SIZE: DIAMETER: 3.53 in. [89.66 mm]
 HEIGHT: 0.727 In. [18.47 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 6.8 oz. (191 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 SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO.	TEST NO.
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
A/R	WASHER, CUSTOM C'SINK	3G1215A-001	3
1	0-Ring, or GASKET	2-031/N756-75, OR 2-031/N756-100-3G	1
-2	-1	DESCRIPTION	

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 FRACTIONS TO 1/64
 DECIMALS TO 0.005
 TOLERANCE SURFACES: UNLESS OTHERWISE SPECIFIED

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
 ACTIVE OR PASSIVE ANTENNA

ANTCOM CORP. TORRANCE, CALIFORNIA

DATE: July-28-15
DESIGNER: S. HUYNH
CHECKED: S. HUYNH
APPROVED: S. HUYNH

SCALE: 1/1
SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas