



ISO 9001:2008/FAA Approved Facility

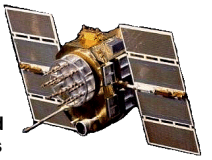
Active L1/L2 GPS Antennas, P/N: 3G1215A-XS-4 (P/N: WA-2317 or 11-1-8247-1)

3.5" Diameter, Front/Back Mount Configurations

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



FAA Approved
TSO Antennas



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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		Power Handling for Passive Ant.	04/04/11	S.H
B		New Diameter	07/28/15	S.H

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 (dBic):	Free Space 16 in G.P. 4 ft G.P.	Free Space 16 in G.P. 4 ft G.P.
@ 90° (ZENITH):	+ 4.7 + 0.4 + 3.5 + 3.3 + 1.5 + 4.9	
@ 10° Elevation:	- 1.8 - 3.2 - 2.0 - 3.8 - 4.0 - 3.6	
@ 20° Elevation:	- 0.3 - 1.0 + 0.8 - 2.0 - 2.0 - 0.1	
@ 30° Elevation:	+ 1.4 + 0.9 + 1.8 - 0.5 0.0 - 1.8	
@ 60 - 90° Elevation:	> 3.9 +3.4/+0.4 > 2.8 > 2.7 +2.4/+1.5 > 3.0	
BEAM WIDTH (3dB):	114 Deg. 118 Deg. 139 Deg.	106 Deg. 111 Deg. 75 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	
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, -PL-)

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-L-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO.	QTY REQD.
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-6	3
1	O-Ring, or GASKET	2-031/N756-75, OR 3G15P1001-3G	1
-2	-1	DESCRIPTION	PART NO.

PARTS LIST

UNLESS OTHERWISE SPECIFIED	FRACCTIONS AND ANGLES	TOLERANCE SURF PER ANSI Y14.5	REMOVE ALL SQUARE	ORIGINAL DRAWN	S. HUYNH	ORIGINAL DESIGNED	S. HUYNH	UPDATED	S. HUYNH	APPROVED	S. HUYNH
± 1/64	± 1'	± 0.005	± 0.005	May-29-01	May-29-01	May-29-01	July-28-15	July-28-15	July-28-15	July-28-15	

ANTCOM CORP. TORRANCE, CALIFORNIA
OUTLINE DRAWING
L1/L2 ACTIVE, OR PASSIVE
GPS ANTENNA

DATE: 07/28/15
DWG NO: D13CVE1
ITEM NO: 3G1215A-XS-4
SCALE: 1/1
SHEET: 1 OF 1

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NMO Connector Option is Now Available for Some Antennas

CC: 3CVE1, NAICS: 334511, S. Huynh, June 4, 2016

<http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers/Power Divider/Combiner/Filters)

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