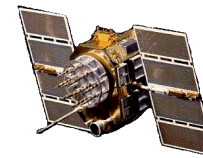




Active L1/L2 GPS Antennas, P/N: 3G1215A-XTR-X, REV A

3.5" Diameter, Configurations



ISO 9001:2008/FAA Approved Facility

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

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>

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	< 1.5:1
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBi):	Free Space	4 ft G.P.
@ 90° (ZENITH):	+ 4.7	+ 3.5
@ 10° Elevation:	- 1.8	- 2.0
@ 20° Elevation:	- 0.3	+ 0.8
@ 30° Elevation:	+ 1.4	+ 1.8
@ 60 - 90° Elevation:	> 3.9	> 2.8
BEAM WIDTH (3dB):	114 Deg.	139 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, (2.5-24)V/<50mA	
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB	-40 dB / -40 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 0.75 in. [18.97 mm], 0.58" [14.73] (Optional for Passive)
WEIGHT: 7.90 oz. (224 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
COLOR: BASE IRIDITE PER MIL-C-5441
MATERIAL: OLIVE DRAB GREEN #34031 PER FED-STD-595B
6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: TNC CONNECTOR

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEAL
HAILSTONES: < 0.5" Dia.

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

SIZE: FREQ. BAND: LNA:

1: 2" SQ	1215: L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.9: 1.9" SQ	15: L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

CONNECTOR: S: SMA; RS: R-SMA; P: PINS
M: With Mount
50M: With 50 Ft Cable/Mount
N: NB; N: N-Bulkhead
T: TNC Bulkhead

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES: .XXX .015 .XXX .005 ± .1" .005 ± .1"

ANTCOM CORP. TORRANCE, CALIFORNIA
L1/L2 ACTIVE GPS ANTENNA / ANTENNA KIT
D 3CVE1 3G1215A-XTR-X A
SCALE 1/1 SHEET 1 OF 1

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

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