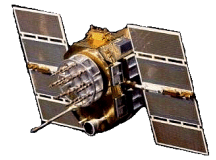




Active or Passive L1/L2 GPS Antenna/Antenna Kit, P/N: 3G1215X-XXR-X

P/N: 3G1215A-MTR-5 (P/N:4201246-005)

3.5" Diameter, Pipe Mount/Cable Configuration



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	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space 4 ft G.P.	Free Space 4 ft G.P.
@ 90° (ZENITH):	+4.7 +3.5	+3.3 +4.9
@ 10° Elevation:	-1.8 -2.0	-3.8 -3.6
@ 20° Elevation:	-0.3 +0.8	-2.0 -0.1
@ 30° Elevation:	+1.4 +1.8	-0.5 -1.8
@ 60-90° Elevation:	> 3.9 > 2.8	> 2.7 > 3.0
BEAMWIDTH(3dB):	114 Deg. 139 Deg.	106 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, (2.5-24)V/-50mA	
REJECTION@ (-50/+50)MHz:	-41 dB / -59 dB	-40 dB / -40 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: 0.75 in. [18.97 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 7.90 oz. (224 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM PER MIL-C-5441
OLIVE DRAB GREEN #34031 PER FED-STD-595B

COLOR: 6061-T6 ALUMINUM ALLOY BASE

MATERIAL: COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
TNC Bulkhead

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: 70,000ft.

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-883C AND SAE J1455

PHOTOGRAPHS:

PHOTOGRAPH 1: Purple antenna with TNC connector and nameplate.

PHOTOGRAPH 2: Green antenna with TNC connector and nameplate.

PHOTOGRAPH 3: Orange antenna with TNC connector and nameplate.

PHOTOGRAPH 4: Black antenna with TNC connector and nameplate.

P/N: 3G1215A-XXR-X

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

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CONNECTOR	COLOR
X: Without Mount	S: SMA; RS: R-SMA; P: PINS
M: With Mount	M: MMCX; MM: MMCX
50M: With 50 Ft Cable/Mount	N: NB; N: N-Bulkhead
	T: TNC Bulkhead

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
FRACTIONS DECIMALS ANGLES	FRACTIONS DECIMALS ANGLES
2 1/64 0.015 300.0 0.005	0.015 0.005 0.1

DO NOT SCALE DRAWING

DATE	BY	CHKD	APP'D	SCALE	SHEET	OF
01-05-29	M. BOAS		S. HUYNH	D 3CVE1	3G1215A-XXR-X	1

ANTCOM CORP. TORRANCE, CALIFORNIA

L1/L2 ACTIVE GPS ANTENNA / ANTENNA KIT

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas