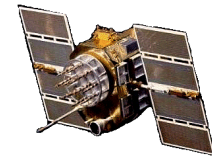




Active or Passive L1/L2 GPS Antennas, P/N: 3G1215X-MNX-X

3.5" Diameter Configurations, Flat, Front/Back Flush Magnetic Mount



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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>

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REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz
FREQUENCY:		
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. 16 in G.P.
@ 90° (ZENITH):	+4.7	+3.5
@ 10° Elevation:	-1.8	-3.8
@ 20° Elevation:	-0.3	-2.0
@ 30° Elevation:	+1.4	-0.5
@ 60 - 90° Elevation:	> 3.9	> 2.8
BEAMWIDTH(3dB):	114 Deg.	106 Deg.
AXIAL RATIO:	2 dB	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:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: DIAMETER: 3.53 in. [89 mm]
HEIGHT: 0.76 in. [19 mm]

WEIGHT: 6.8 oz. (191 g)

FINISH: SKYDROL RESISTANT POLYURETHAN ENAMEL
BASE IRIDIUM 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, D0-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810 AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100 2-031/N756-75, or 123456-3M-3G

QTY	DESCRIPTION	PART NO	ITEM NO
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-6	3
1	GASKET	3G15P1001-3G	1
-2	-1	DESCRIPTION	ITEM NO

PARTS LIST

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

P/N: 3G1215A-MNS-1

CABLE LENGTH	CONNECTOR	COLOR
X: Bottom Connector	S: SMA; RD: R-SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: No MAG	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
MIN: FLUSH MAG	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
M: Big Non-Flush Mag	T: TB; TNC; TNC-Bulkhead	-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:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS: DECIMALS: ANGLES
± 1/64 .005 .005 ± 1°

TOLERANCE SURF PER ANSI Y14.5
TYPICAL SURF FINISH: 320
BREAK EDGES: .005 TO .015
DIMS ON A CROWN: .024 TO .006
MACHINED SURFACES: 32

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

FLUSH MAGNETIC MOUNT
L1/L2 ACTIVE, OR PASSIVE
GPS ANTENNA

DESIGNED BY: S. HUYNH
APRIL-27-07

DRW: [Signature]

CHK: [Signature]

APP: [Signature]

CAP FILE NO: [Blank]

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

CC: 3CVE1, NAICS: 334511, S.Huynh, April 1, 2016 <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf> (Amplifiers/Power Divider/Combiner/Filters) 43 of 157