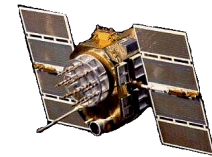




ISO 9001:2008/FAA Approved Facility

Active or Passive L1/L2 GPS Antennas
 P/N: 3G1215X-MNS-X Rev A2 for Magnet, Thinner Version
 P/N: 3G1215X-XNS-X Rev A2 for No Magnet, Thinner Version
 3.5" Diameter Configurations, Flat, Front/Back Flush Magnetic Mount



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>

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 (dBiC):	Free Space	16 In G.P., 4 ft G.P.
@ 90 ° (ZENITH):	+ 4.7	+ 0.4
@ 10 ° Elevation:	- 1.8	- 3.2
@ 20 ° Elevation:	- 0.3	- 1.0
@ 30 ° Elevation:	+ 1.4	+ 0.9
@ 60 - 90 ° Elevation:	> 3.9	+3.4/+0.4
BEAM WIDTH (3dB):	114 Deg.	118 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 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

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 2-031/N756-75, or 12345G-3M-3G

QTY	DESCRIPTION	PART NO	REV
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-6	3
1	EPDM NON-ADHESIVE GASKET	3G15P1001-3G	2
1	ADHESIVE GASKET	12345G-3M-3G	1

PARTS LIST

QTY	DESCRIPTION	PART NO	REV
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	5
A/R	WASHER, CUSTOM C'SINK	3G15P1001-6	3
1	EPDM NON-ADHESIVE GASKET	3G15P1001-3G	2
1	ADHESIVE GASKET	12345G-3M-3G	1

ANTCOM CORP. TORRANCE CALIFORNIA

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

DATE: 30 Jun 2016
 DRAWN: S. HUYNH
 CHECKED: Apr-27-07
 APPROVED: S. HUYNH
 DATE FILED: Apr-27-07

SCALE: 1/1 SHEET 1 OF 1

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P/N: 3G1215A-MNS-1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: Bottom Connector	S: SMA; RD: RSMA; P: PINS	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B
MIN: MAG.	W: BACK MOUNT	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
M: FLUSH MAG	T: TNC (for Big Non-Flush Mag Option Only)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
M: Big Non-Flush Mag.	N: N (for Big Non-Flush Mag Option Only)	-5: DESERT TAN

SIZE: FREQ. BAND: LNA:

1: 2" SQ. 1215; L1/L2 A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS

1.5: 1.5" 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

4 x 10-32 Thread Holes x 0.250" Deep, Equally Spaced on 1.375" Rad. for Mounting Option

4 x Flush Magnets

SMA CONNECTOR

4x1.258 [31.95]

4x.556 [14.12]

8-32 Threads x 0.2in Deep

SPHERICAL R6.000 [R152.40]

.762 [19.35]

4X Ø.20 [Ø5.11] Thru. Ø.385 [Ø9.78] X 100" for 10-32 MOUNTING SCREWS

Ø3.530 [Ø89.66]

.950 [24.13]

23.0°

1.900 [48.26]

Ø.950 [24.13]

NMO Connector Option is Now Available for Some Antennas