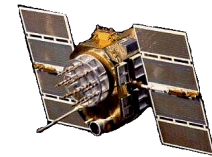




ISO 9001:2008/FAA Approved Facility

Active or Passive L1/L2 GPS Antennas
 P/N: 3G1215X-MNS-X Rev A For Magnet, Thinner Version
 P/N: 3G1215X-XNS-X Rev A 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>

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

8-32 Threads x 0.2in Deep

SIZE: 1: 2" SQ. 1.5x 1.5" SQ. 2: 2.6" DIA. 3: 3.5" DIA. 4: MINI ARINC

FREQ. BAND: L1/L2 15x L1 ONLY

LNA: A: WITH LNA. A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS AL: WITH LNA LIMITER P: WITHOUT LNA PL: WITHOUT LNA and THINNER (HEIGHT = 0.58") 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:

CABLES LENGTH: 3: SMA; 4: BNC; 5: SMA; P: PINS

CONNECTOR: M: MCX; MM: MMCX

COLOR: 1: GLOSS WHITE #17525 PER FED-STD-595B #2: LUSTERLESS GRAY #30320 PER FED-STD-595B #3: OLIVE DRAB GREEN #34031 PER FED-STD-595B #4: LUSTERLESS BLACK #37038 PER FED-STD-595B #5: DESERT TAN

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TO BE USED ARE ANGLES TO BE USED ARE ± 1/64 ± .005 ± .1° TOLERANCE DIM PER ASB Y14.5 REMOVE ALL BURRS FROM ALL DIMENSIONS .005 TO .015 MILLI & .005 TO .010 INCHES PER MIL-STD-883C DIA'S ON A COMMON & 27.005 MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

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

DRAWN: S. HUYNH

APPROVED: S. HUYNH April-27-07

DATE: 04/27/07

SCALE: 1/1

SHEET: 1 OF 1

SPECIFICATIONS

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz		L2: (1227.60 ±15) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP		RHCP			
VSWR:	< 1.5:1		< 1.5:1			
IMPEDANCE:	50 ohms		50 ohms			
ANTENNA GAIN (dBi):	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		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		< -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, 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 12345G-3M-3G

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

QUANTITY REQD PARTS LIST

NMO Connector Option is Now Available for Some Antennas