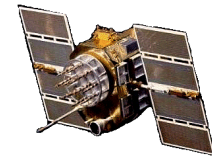




# Active L1/L2 GPS Antenna, P/N: 1.2G1215X-MNX-X Rev A (Improved Gain) 1.2" Square Flush Magnetic Mount/Back Side Connector Configuration



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

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### SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		3dB More In Gain	Sep-21-06	S.H

#### ELECTRICAL:

	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	< 1.5:1
IMPEDANCE:	50 ohms	50 ohms
ANTENNA GAIN (dBic):	Free Space    3 in G.P.	Free Space    3 in G.P.
@ 90° (ZENITH):	-0.8    +3.8	-3.7    +2.7
@ 10° Elevation:	-9.3    -4.3	-9.9    -6.3
@ 20° Elevation:	-6.8    -2.2	-9.2    -4.2
@ 30° Elevation:	-5.2    -0.7	-7.8    -2.4
@ 60 - 90° Elevation:	> -2.1    > 2.5	> -4.7    > 1.3
BEAM WIDTH (3dB)	100 Deg.    120 Deg.	100 Deg.    90 Deg.
AXIAL RATIO:	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

#### LNA OPTION:

LNA GAIN:	24.0 dB
LNA NOISE FIGURE:	1.8 dB
LNA P 1dB Out:	+16 dBm
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (15 TO 25) mA

#### MECHANICAL:

SIZE:	1.250 in. [31.75 mm] SQ.
HEIGHT:	0.69 in. [17.45 mm]
WEIGHT:	1.4 oz. (39.2 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	SMA MALE (OPTION: MMCX, MCX, SMA OR TNC)

#### 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

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
						5
1						3
1						2
1						1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS    DECIMALS    ANGLES ± 1/64    ± .005    ± 1°	DRAWN	ANTCOM CORP. TORRANCE CALIFORNIA
TOLERANCE 51M PER ANSI Y14.5	CHECKED	1.2in SQ. FLUSH MAGNETIC MOUNT L1/L2 GPS ANTENNA
REMOVE ALL BURRS BREAK SHARP EDGES .005 TO .015 FILE TO .0015 SCREW THREADS PER MIL-B-8879 DAYS ON A CORNER @ 25.000	DESIGNED	DATE OF JOB: 06-04-06
MACHINED SURFACES	APPROVED	BY: S. HUYNH
DO NOT SCALE DRAWING	CAP FILE NO	DATE: 06-11-06
	SCALE 1/1	SHEET 1 OF 1

P/N: 1.2G1215A2-MNSM-4

CABLE LENGTH	CONNECTOR	COLOR
MN: FLUSHMAG	SM: SMA-M, S: SMA, RS: R-SMA, P: PINS.	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: NO MAG	M: MCX, MM: MMCX, SMB: SSMA, SSMB	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	SSMC, SSMP, T, TB, TNC, TNC-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	L-RM: Right Angle Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]  
NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas