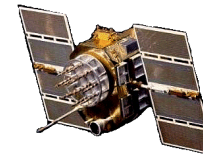




Active or Passive L1/L2 GPS Antenna, P/N: 1.2G1215X-XS-X-NF Rev C (Improved Gain) 1.2" Square, Back Connector Configurations



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

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SPECIFICATIONS

ZONE		REV	DESCRIPTION	DATE	APPROVED
A		3dB	More In Gain	Sep-21-06	S.H
C			Connector Flange Thickness	Mar-19-09	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: 0.547 in. [13.89 mm]
 WEIGHT: 1.4 oz. (39.2 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: 4.5" LONG FLEXIBLE CABLE with RIGHT ANGLE MMCX (OPTION: MCX, SMA, SMB, SSMA, SSMB, SSMC, 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

MECHANICAL DRAWING:

Max. Dim: 0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

MOUNTING: 4X 2-56 X 0.150 Deep

SIZE:	FREQ. BAND:	LNA:
1: 1.2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA
1.9: 1.9" SQ.	15: L1 ONLY	A4: WITH 40 dB LNA
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.6" DIA.		
4: MINI ARINC		

P/N: 1.2G1215A2-XS-X-NF

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; RS: R-SMA; P: PINS; M: MCX	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. R. NO MAG.	MM: MMCX; SMB: SSMA; SSMB, SSMC	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
RF: CABLE LENGTH (IN)	SSMP: T, TB; TNC, TNC-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
RG: RIGHT ANGLE CON.	L: RMC; Right Angle Male Lemo	-4: LUSTERLESS BLACK #37036 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ANTCOM CORP.
FRACTIONS: 1/64, 1/32, 1/16 ANGLES: .005 TO .015	TORRANCE, CALIFORNIA
TOLERANCE SURFACES: .002, .005 ± .001	Feb-11-10
TOLERANCE SURFACES: .002, .005 ± .001	OUTLINE DRAWING
TOLERANCE SURFACES: .002, .005 ± .001	L1/L2 ACTIVE or PASSIVE
TOLERANCE SURFACES: .002, .005 ± .001	GPS ANTENNA
TOLERANCE SURFACES: .002, .005 ± .001	ANTCOM CORP.
TOLERANCE SURFACES: .002, .005 ± .001	Feb-11-10
TOLERANCE SURFACES: .002, .005 ± .001	SCALE 1/1
TOLERANCE SURFACES: .002, .005 ± .001	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas