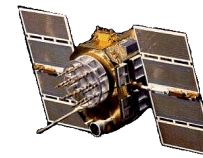




# Active or Passive L1/L2 GPS Antenna, P/N: 1.2G1215X-XP-X-NF Rev C

## (Improved Gain) 1.2" Square, Back Connector Configurations

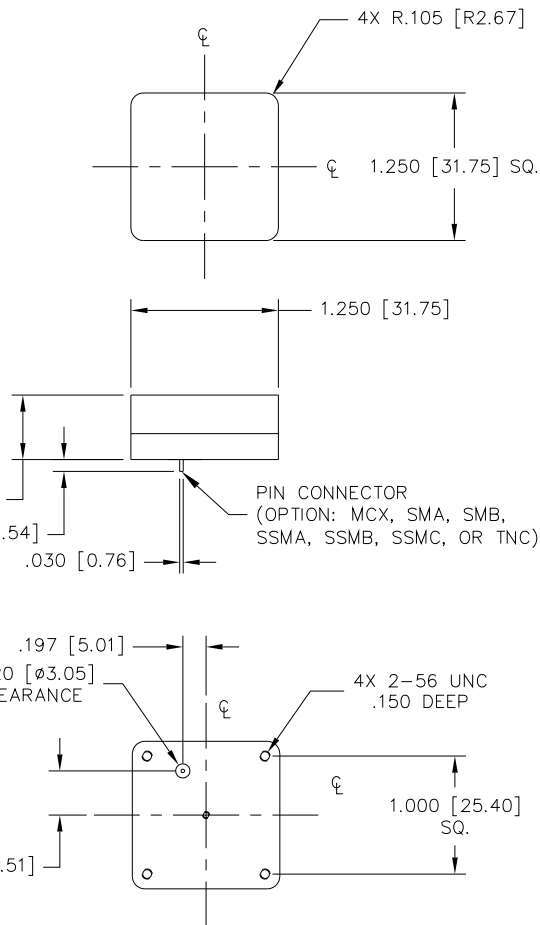


ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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### SPECIFICATIONS

#### ELECTRICAL:

		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	
-	-	-	-	-	S.H

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz		
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		3 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-5441F
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR:	PIN (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 STC-144, 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

SIZE:	FREQ. BAND:	LNA:
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: 3.5" DIA.		
4: MINI ARINC		

**P/N: 1.2G1215A2-XP-X-NF**

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

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. N: NO MAG.	MM: MMX, SMB: SSMA, SSMB, SSMC,	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	SSMP: T, TB: TNC, TNC-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
	L-RM: Right Angle Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY	REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TEST NO
1							3
1							2
1		ADHESIVE GASKET	12345G-3M-1.2G	-	-	-	1
-2	-1						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DRAWN	S. HUYNH	Feb-11-10
FRACTIONS DECIMALS ANGLES ± 1/64 .001 .005 ± 1°	ORIGINALLY DESIGNED <td>S. HUYNH <td>Feb-11-10</td> </td>	S. HUYNH <td>Feb-11-10</td>	Feb-11-10
TOLERANCE S/M PER AND Y14.5	UPDATED <td>S. HUYNH <td>Aug-28-13</td> </td>	S. HUYNH <td>Aug-28-13</td>	Aug-28-13
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLET R .005 TO R .030 CAMEO DIMENSIONS PER MIL-STD-883C MACHINED SURFACES 125	UPDATE DRAWN <td>P. TRAN <td>Aug-28-13</td> </td>	P. TRAN <td>Aug-28-13</td>	Aug-28-13
DO NOT SCALE DRAWING	APPROVED <td>S. HUYNH <td>Aug-28-13</td> </td>	S. HUYNH <td>Aug-28-13</td>	Aug-28-13

<b>ANTCOM CORP.</b> TORRANCE CALIFORNIA	
OUTLINE DRAWING	
L1/L2 ACTIVE OR PASSIVE	
GPS ANTENNA	
REV	DATE
D   3CVE1	1.2G1215X-XP-X-NF
SCALE 1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas