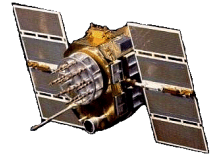




Active or Passive L1/L2 GPS Antenna, P/N: 1.2G1215X-XS-X Rev C

(Improved Gain) 1.2" Square, Back Connector Configurations



ISO 9001:2008/FAA Approved Facility

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

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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SPECIFICATIONS

REVISIONS				
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 3	
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 IRIDIUM 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, SSMC, OR TNC)

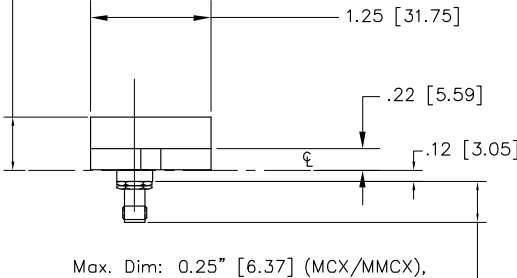
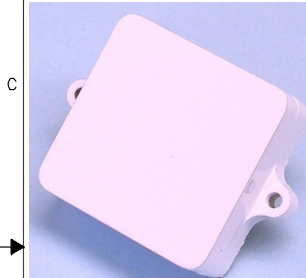
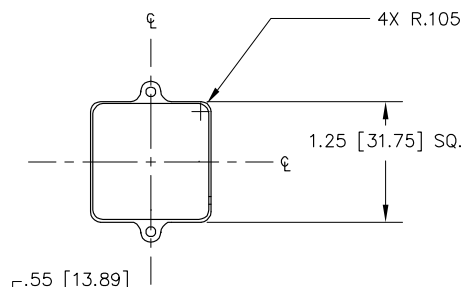
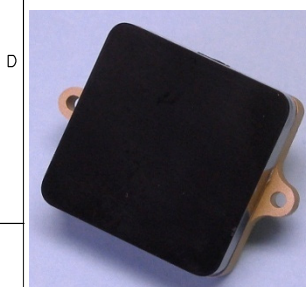
ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

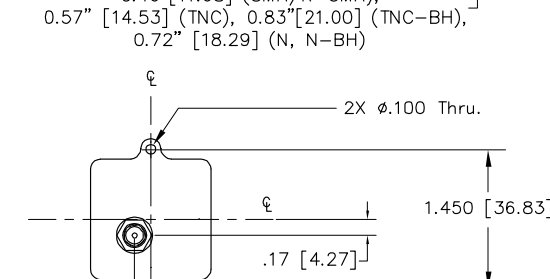
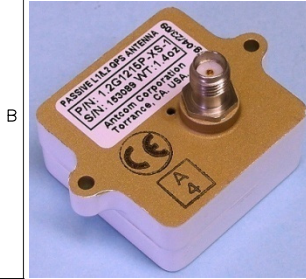
FEDERAL & MILITARY SPECIFICATIONS:

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



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)



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" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINIARINC		

P/N: 1.2G1215A2-XS-X

CABLE 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: MMCX; SMB; SSMA; SSMC; SSMC;	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	SSMP; T: TB; TNC; TNC-Bulkhead	-3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	L: R-M: Right Angle Male Lemo	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY	REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
							5
1		ADHESIVE GASKET	12345G-3M-1.2G				3
1							2
1							1
-2	-1						

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 2 1/64 .0015 2 1/2
 300±.005
 TOLERANCE 51M PER ANSI Y14.5
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 DATE: Mar-11-09
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ANTCOM CORP. TORRANCE, CALIFORNIA
 OUTLINE DRAWING
 L1/L2 ACTIVE or PASSIVE
 GPS ANTENNA
 SHEET NO. D1 3CVE1 1.2G1215X-XS-X C
 SCALE 1/1 SHEET 1 OF 1

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED: