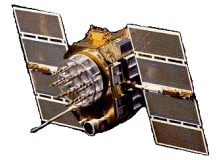




20,000G L1/L2 GPS Antenna, P/N: 1.2G1215X-XX-X-U Rev A

1.2" Square, Front Mount, Back Cable 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		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A		3dB More in Gain	S.H
B			

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.
@ 90° (ZENITH):	-0.8	+3.8
@ 10° Elevation:	-9.3	-4.3
@ 20° Elevation:	-6.8	-2.2
@ 30° Elevation:	-5.2	-0.7
@ 60-90° Elevation:	> -2.1	> 2.5
BEAMWIDTH (3dB):	100 Deg.	120 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:	1.33 oz. (37.7 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:

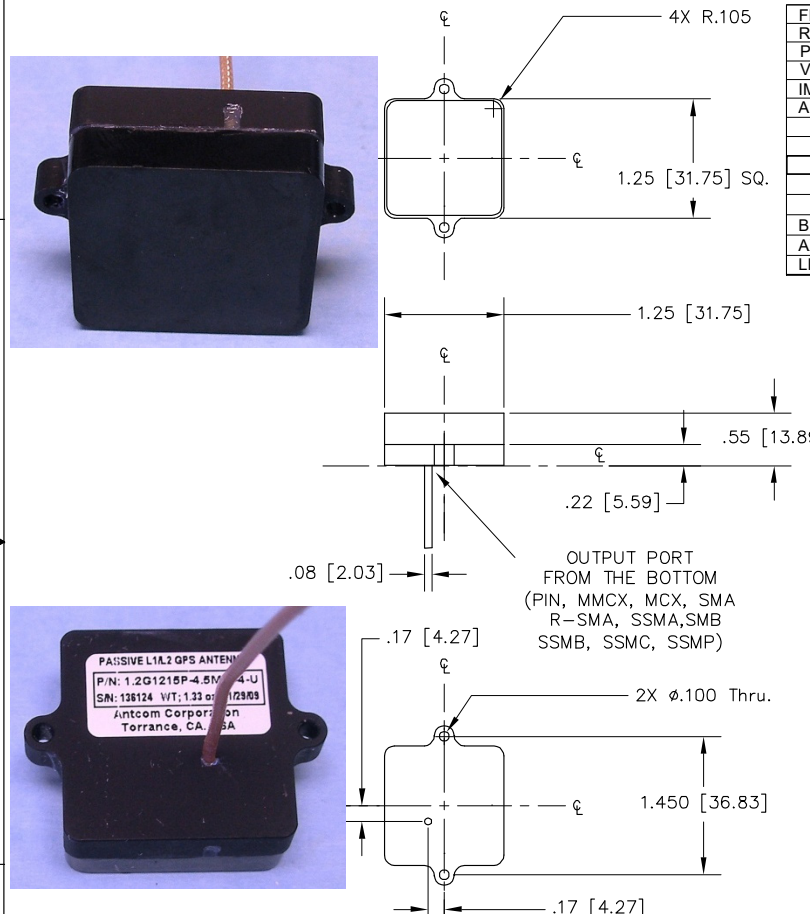
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	20,000 G's
LEAKAGE:	HERMETICALLY SEAL

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	REF NO
						5
1	ADHESIVE GASKET	12345G-3M-1.2G				3
1						2
1						1
-2						



SIZE	FREQ BAND	LNA	High Shock/Vibrator Options:
1: 1.2" SQ	1215 L1/L2	A2: WITH 20 dB LNA	U: 20,000G
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: MINIARINC			

P/N: 1.2G1215P-4.5MM-4-U

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .004 ± .005 ± 1°
TOLERANCE 51M PER ANSI Y14.5
REWORK: ALL BUMPS
SPEC: EXTERNAL EDGES .005 TO .015
FILLETS # 200 TO # 300
DRAWN: S.H. 11-05
CHECKED: S.H. 11-05
APPROVED: S. HUYNH
Mar-11-05
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
High Vibration
L1/L2
GPS ANTENNA
D 3CVE1 1.2G1215X-XX-X-U
SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas