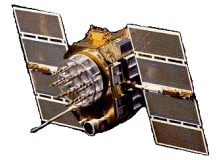


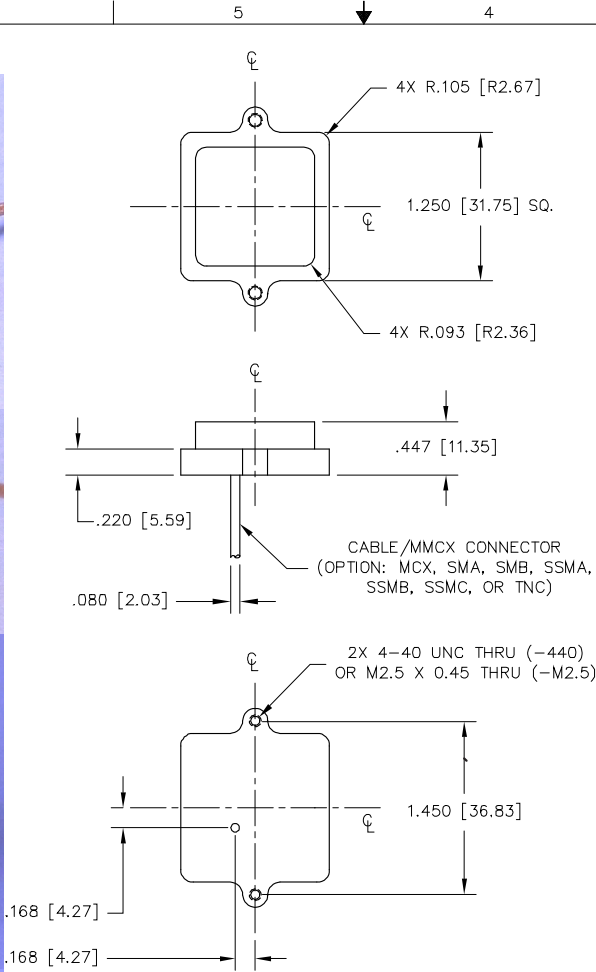
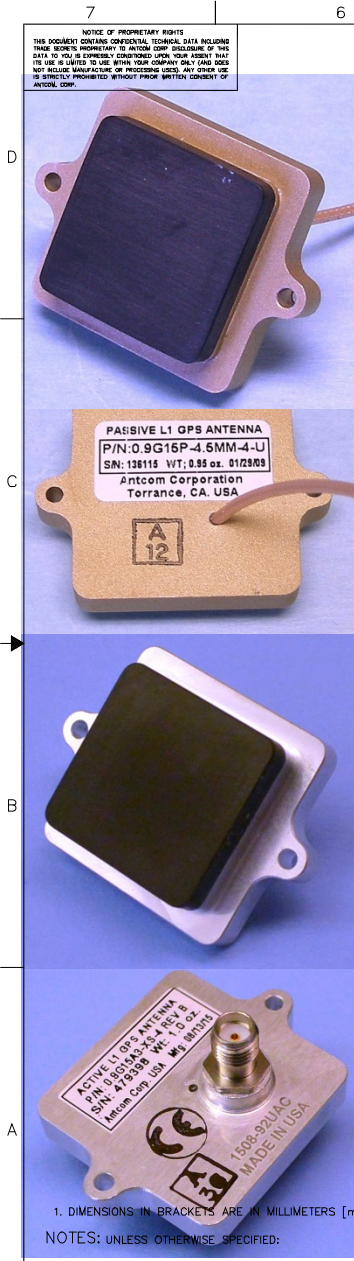


ISO 9001:2008/FAA Approved Facility

20,000G L1 GPS Antenna
 P/N: 0.9G15P-12MM-4-U-440 (Passive, 12" MMCX Cable)
 P/N: 0.9G15P-12S-4-U-440 (Passive, 12" SMA Male Cable)
 P/N: 0.9G15P-12S-4-U-M2.5 (Passive, 12" SMA Male Cable, M2.5 Thread)
 1.250" Sq. x 0.447in Thick, Front Mount, Back Cable Configuration
 Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



SPECIFICATIONS

REVISIONS		DATE	APPROVED
A	ADDED RADOME-REVISED HEIGHT	04-14-14	S.H.
B	M2.5	08-17-17	S.H.

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	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
BEAM WIDTH (3dB):	100 Deg.	120 Deg.
AXIAL RATIO:	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

LNA OPTION (Active):

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: 0.447 in. [13.89 mm]
WEIGHT:	0.95 oz. (27 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:	CABLE/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
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ACCEPTANCE TEST PROCEDURE:

ATP-GPS-L1L2-100

SIZE:	FREQ. BAND:	LNA:	High Shock/Vibration Options:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA	U: 20,000G
1.8; 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			

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

P/N: 0.9G15P-12MM-4-U-440

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.	T: TB; TNC; TNC-Bulkhead; N: N	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
P: CABLE LENGTH (IN)	MM; MMCX, SMR; SSMA, SSMB, SSMC,	-3: CAMO GREEN #34094 PER FED-STD-595B
R: RIGHT ANGLE CON.	SSMP, SSM, P.	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		-5: DESERT TAN #33446 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/64 ± .005 ± 1°

ORIGINALLY DESIGNED BY: S. HUYNH
 DATE: Mar-11-05

ORIGINALLY DESIGNED BY: S. HUYNH
 DATE: Mar-11-05

UPDATED BY: S. HUYNH
 DATE: Aug-17-17

ISSUE DATE: F. TRAN
 DATE: Aug-17-17

APPROVED BY: S. HUYNH
 DATE: Aug-17-17

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
HIGH VIBRATION L1 GPS ANTENNA

DATE: 08/17/2017
 TIME: 10:30 AM
 SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas