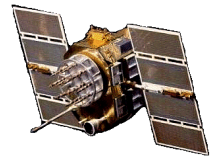




ISO 9001:2008/FAA Approved Facility

# 20,000G L1 GPS Antenna, P/N: 0.9G15P-XX-X-U Rev A

## 1.2" Square, Front Mount, Back Cable Configurations



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### SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	
A		3dB More in Gain	Sep-21-08 S.H
B			

#### 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:

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:	0.95 oz. (27 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:

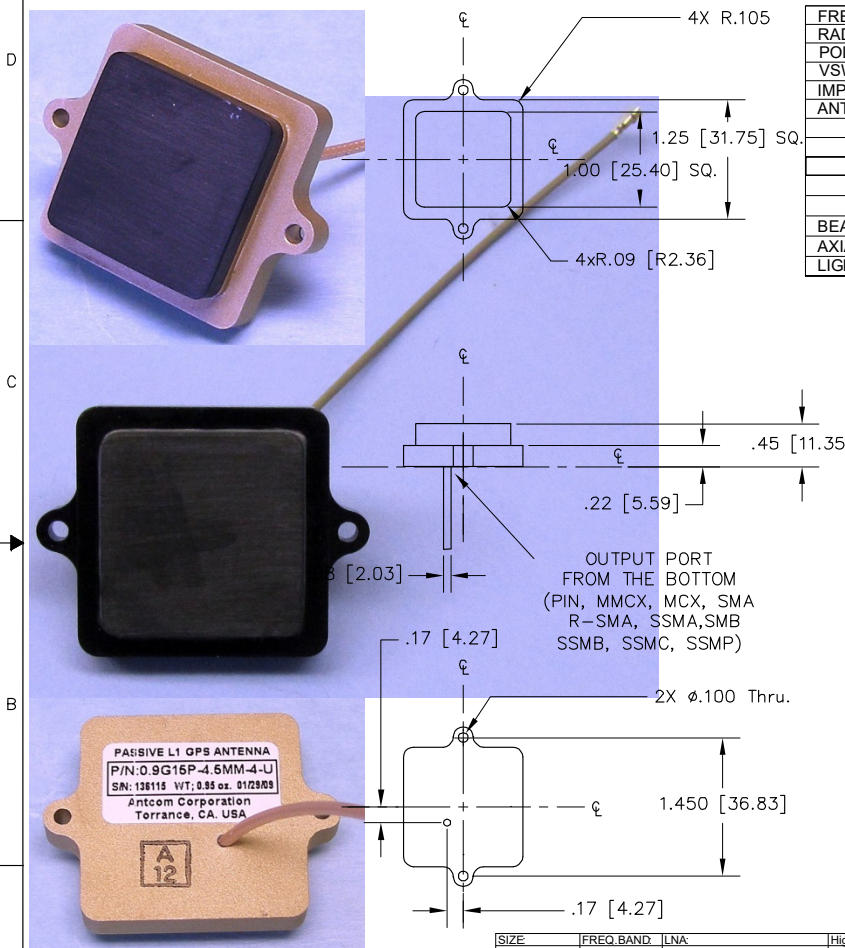
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	20,000 G's
LEAKAGE:	HERMETICALLY SEAL

#### 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
						5
1	ADHESIVE GASKET	12345G-3M-1.2G				3
1						2
1						1
-2						



**P/N: 0.9G15P-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: NOMAG	MM: MMCX, SMB: SSMA, SSMB, SSMC,	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
#: CABLE LENGTH(IN)	SSMP, T: TB, TNC, TNCBulthead	-3: OLIVEDRAB GREEN#34031PER FED-STD-595B
R: RIGHT ANGLE CON.	L-RM: Right Angle Male Lemo	-4: LUSTERLESSBLACK#37038PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
FRACTIONS DECIMALS ANGLES  
± 1/64 ± .005 ± 1°  
TOLERANCE 51M PER ANSI Y14.5  
REMOVE ALL BUMPS  
BREAK EXTERNAL EDGES .005 TO .015  
FILLET R .005 TO R .020  
OVER THROAT PER MIL-STD-8879  
MACHINED SURFACES  
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

High Vibration  
L1  
GPS ANTENNA

0.9G15X-XX-X-U  
SCALE 1/1  
SHEET 1 OF 1