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TECHNOLOGY GROUP

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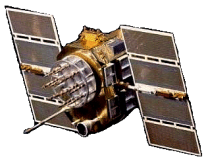
Expert team | Trust guarantee | 100% satisfaction

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

1.2" Square, Front Mount, Back Cable Configurations



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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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	3dB More in Gain	Sep-21-06	S.H
	B			

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz						
RADIATIONPATTERN:	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)

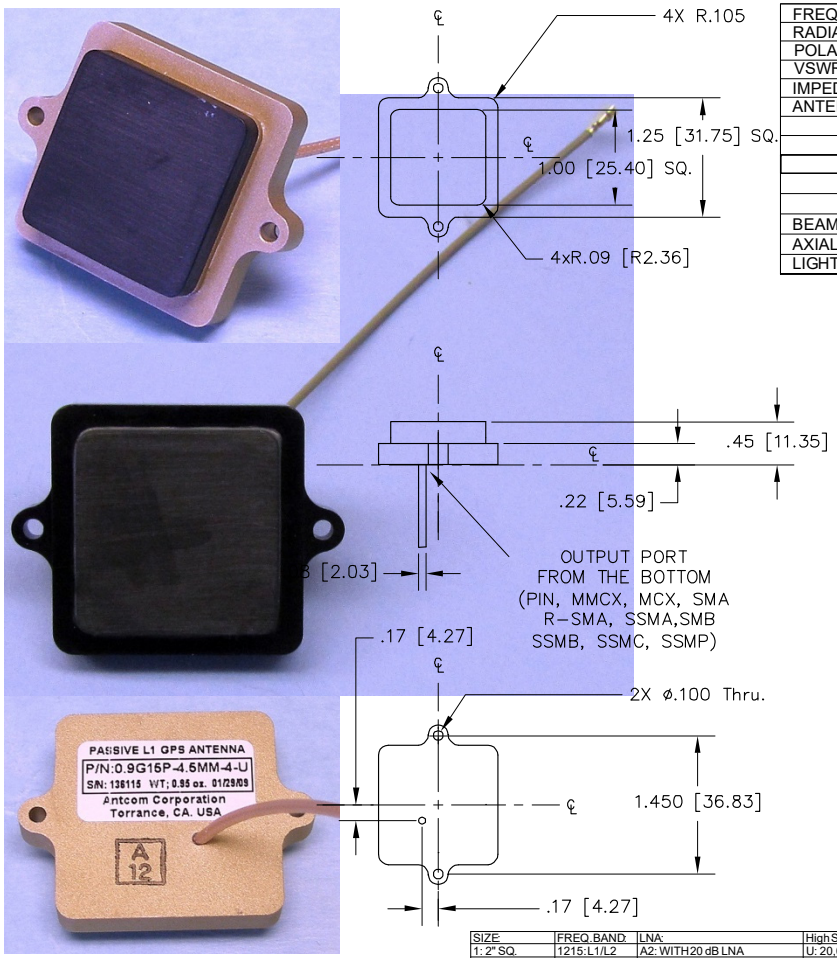
ENVIRONMENTAL:

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



SIZE	FREQ.BAND	LNA:	High Shock/VibrationOptions:
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: WITHOUTLNA	
3: 3.5" DIA.			
4: MINIARINC			

P/N: 0.9G15P-4.5MM-4-U

CABLE*SLENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; RS: R-SMA; P: PINS; M: MCX;	-1: GLOSSWHITE#17925PER FED-STD-595B
M: MAG, N: NO MAG.	MM: MMCX, SMB; SSMA, SSMB, SSMC,	-2: LUSTERLESSGRAY#36320PER FED-STD-595B
#: CABLE LENGTH(IN)	SSMP, T, TB, TNC, TNC-Bulkhead	-3: OLIVEDRAB GREEN#34031PER FED-STD-595B
R: RIGHTANGLECON.	L-RM: Right Angle Male Lemo	-4: LUSTERLESSBLACK#37038PER FED-STD-595B

ITEM NO	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						

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64 DECIMALS .XX± .015 .XXX± .005 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ .005
MACHINED SURFACES 125 V
DO NOT SCALE DRAWING

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Mar-11-05
CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA

High Vibration L1 GPS ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 0.9G15X-XX-X-U | REV A

SCALE 1/1 | SHEET 1 OF 1

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas

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