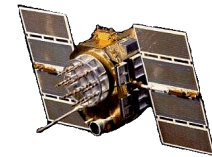




20,000G L1 GPS Antenna, P/N: 0.9G15P-0.86NSMP-4-U-GDD

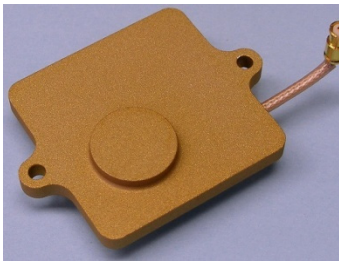
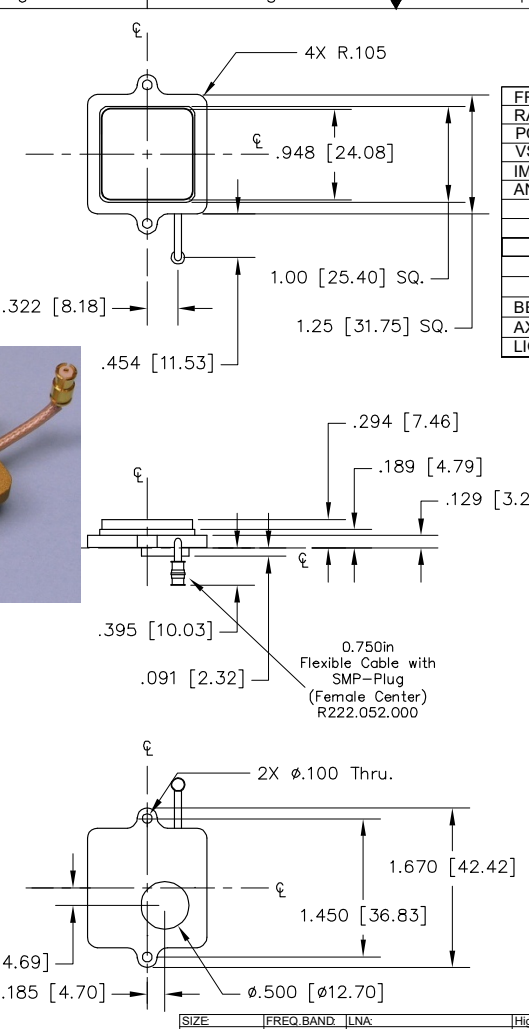
1.2" Sq. x 0.294in Thick , Front Mount, Side Cable Configuration



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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1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; R: S-SMA; P: PINS; M: MCX;	-1: GLOSSWHITE#17925PERFED-STD-595B
M: MAG. N: NOMAG.	MM: MMX; SMB: SSMA; SSMB; SSMC;	-2: LUSTERLESSGRAY#36320PERFED-STD-595B
#: CABLE LENGTH(IN)	SSMP; SMP; T; TB; TNC; TNC-Bulkhead	-3: OLIVEDRAB GREEN#34031PERFED-STD-595B
R: RIGHT ANGLE CON.	L: RM: Right Angle Male Lemo	-4: LUSTERLESSBLACK#37038PERFED-STD-595B

SPECIFICATIONS

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
BEAMWIDTH (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: 0.294 in. [7.46 mm]
WEIGHT: 0.75 oz. (22 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F Type I Class 1A

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: 0.860in SMP-Plug (Female Center) Cable (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						

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS TOLERANCES: DECIMALS: ± .010
± 1/64 ± .004 ± .005 ± .010
TOLERANCE 51M PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .020
SPRUE THROATS PER MIL-C-8879
MACHINED SURFACES ✓
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
High Vibration L1 GPS ANTENNA
D 3CVE1 0.9G15P-0.86NSMP-4-U-GDD
SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas