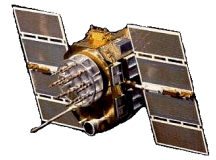




Active L1 GPS Antenna, P/N: 1.4G15A-8S-4 (1.4" x 1.5") Rectangular Configuration



ISO 9001:2008/FAA Approved Facility

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>

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4xR.375 [R9.53]

1.500 [38.10]
1.400 [35.56]

1.500 [38.10]

.525 [13.33]

.325 [8.26]

.525 [13.33]

1.400 [35.56]

.325 [8.26]

.241 [6.12]

4X .593 [15.06]

**MOUNTING:
4X 2-56 UNF-2A
X 0.118 Deep**

**OPTIONAL MOUNTING:
2-56 SCREWS, ADHESIVE GASKET,
HYSOL, OR RTV**

**8" CABLE WITH FEMALE SMA CONNECTOR
(OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)**

SIZE: 1.4" SQ.
FREQ. BAND: 1626; Tx/Rx
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 1.5" SQ.
FREQ. BAND: 25; 2453 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 2" DIA.
FREQ. BAND: 16; 1616 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 3" DIA.
FREQ. BAND: 16; 1575 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 1.4: (1.4" x 1.5")
FREQ. BAND: 4: MINI ARINC
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 1.4" SQ.
FREQ. BAND: 1626; Tx/Rx
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 1.5" SQ.
FREQ. BAND: 25; 2453 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 2" DIA.
FREQ. BAND: 16; 1616 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 3" DIA.
FREQ. BAND: 16; 1575 MHz
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

SIZE: 1.4: (1.4" x 1.5")
FREQ. BAND: 4: MINI ARINC
LNA: A: ACTIVE (WITH LNA)
P: WITHOUT LNA

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	16 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+ 4.6	+ 0.3	+ 2.9
@ 10° Elevation:	- 2.5	- 3.1	- 1.8
@ 20° Elevation:	- 1.1	- 1.1	+ 0.7
@ 30° Elevation:	+ 0.5	+ 0.9	+ 1.7
@ 60 - 90° Elevation:	> 3.6	+3.1/+0.3	> 2.1
BEAM WIDTH (3dB):	103 Deg.	120 Deg.	146 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

LNA (OPTION):

LNA GAIN:	27 dB
LNA NOISE FIGURE:	1.4 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3-10) Volts/ 20mA
POWER HANDLING:	1 Watt CW

MECHANICAL:

LENGTH=1.54 in. [39.12 mm], WIDTH=1.54 in. [39.12 mm]
HEIGHT= 0.368 in. [9.35 mm]
WEIGHT : 1.1 oz. (31.2 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, ABRASION, UV, SOLVENT,
AND SKYDROL RESISTANCE, FIRE RETARDANT
CONNECTOR : FEMALE SMA CONNECTOR WITH 36" CABLE
(OPTIONAL: MCX, MMCX, TNC, N, OR OTHER CONNECTOR)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE : HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	NEW
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1,2G	-	-	-	3
-	-	-	-	-	-	1
-2	-1	-	-	-	-	-

ANTCOM CORP. TORRANCE, CALIFORNIA

1.5" SQ. FLAT MOUNT L1 GPS ANTENNA (WITH CABLE)

P/N: 1.4G15A-8S-4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS AND ANGLES SHALL BE TO 1/64 .005 ± 1° .005 ± 1°

TOLERANCE 5/16 PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .000 TO .015

FILE ALL SURFACES TO .000

DATE ON A COMMON 4/2/2000

WAXED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas