



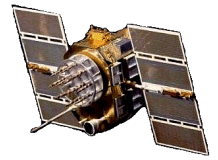
ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

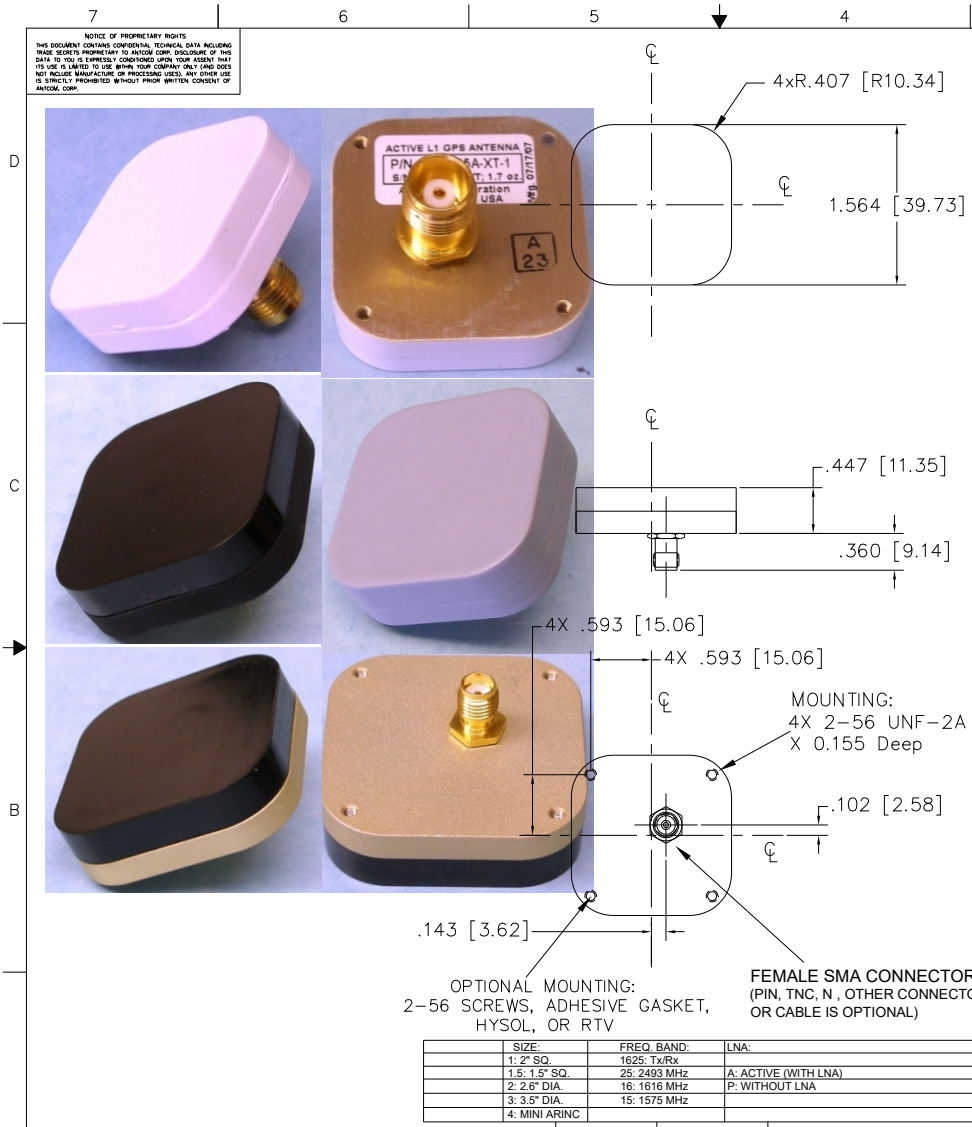
L1 GPS Antennas, P/N: 1.5G15X-XX-X-R

P/N: 1.5G15A-XT-1-R-HF (Active with Higher Rejection Filter to Reject Iridium Band)

1.5" Square, Back Mount Configuration, *Walls Fully Painted*



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>



REVISIONS	
ZONE	DESCRIPTION

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:	22 dB
LNA NOISE FIGURE:	2.6 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3-10) Volts/ 20mA
POWER HANDLING:	1 Watt CW

MECHANICAL:

SIZE: 1.57in Square
HEIGHT= 0.447 in. [11.35 mm]

WEIGHT: 1.5 oz. (42.5 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, IMPACT, ABRASION, UV, SOLVENT,
AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: FEMALE SMA CONNECTOR
(TNC, N, OTHER CONNECTOR, OR CABLE IS OPTIONAL)

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, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	FILE NO
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1.5G	-	-	-	3
-2	-	-	-	-	-	1

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1625: Tx/Rx	-
1.5" 1.5" SQ.	25: 2493 MHz	A: ACTIVE (WITH LNA)
2: 2.6" DIA.	16: 1616 MHz	P: WITHOUT LNA
3: 3.5" DIA.	15: 1575 MHz	-
4: MINI ARINC	-	-

P/N: 1.5G15X-XS-X-R

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .015 ± .005 .005 ± .01

TOLERANCE .5M PER ANSI Y14.5

REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .010 FILE TO .0015 R .500 SURE NITRIDING PER MIL-S-8879 DAYS ON A CLEAN Q. 20000 MACHINED SURFACES 12/1

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

1.5" SQ. FLAT MOUNT L1 GPS ANTENNA

DATE: 08-27-03
DESIGNED BY: S. HUYNH
CHECKED BY: S. HUYNH
APPROVED BY: S. HUYNH

REV: D
CASE NO: 3CEV1
SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas