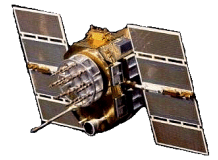




Active L1 GPS Antennas, P/N: 1.5G15A3F-XT-1-R

1.5" Square, Back Mount Configuration

Walls Fully Painted

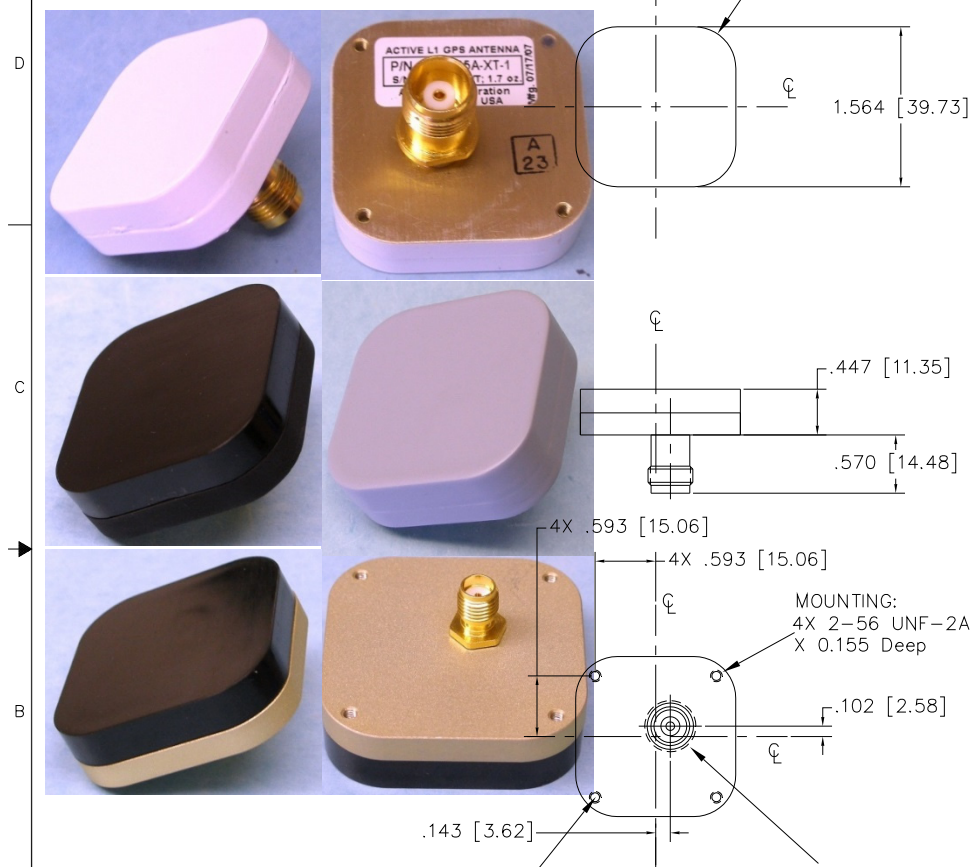


ISO 9001:2008/FAA Approved Facility

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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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:	33 dB
LNA NOISE FIGURE:	2.6 dB
LNA P1dB Out:	+13 dBm
LNA DC POWER:	(3-10) Volts/ 25mA
FILTER:	2-POLE FILTER
POWER HANDLING:	1 Watt CW

MECHANICAL:	
SIZE:	1.57in Square
WEIGHT:	HEIGHT= 0.447 in. [11.35 mm] 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 TNC CONNECTOR (SMA, 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	REV NO
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1.5G	-	-	-	3
-2	-	-	-	-	-	1

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	15: 1575 MHz	A3F: ACTIVE (33 dB LNA GAIN WITH FILTER)
1.5: 1.5" SQ.	16: 1616 MHz	A4: ACTIVE (22 dB LNA GAIN WITH FILTER)
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		
4: MINI ARINC		

P/N: 1.5G15A3F-XT-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: MMCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#F: 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 ARE DECIMAL ANGLES ± 1/64 ± .015 ± .1'		ANTCOM CORP. TORRANCE, CALIFORNIA 1.5" SQ. FLAT MOUNT ACTIVE L1 GPS ANTENNA
ORIGINALLY DRAWN	S. HUYNH Aug-27-03	
ORIGINALLY DESIGNED	S. HUYNH Aug-27-03	
UPDATED	S. HUYNH Mar-07-13	
UPDATE DRAWN	P. TRAN Mar-07-13	
APPROVED	S. HUYNH Mar-07-13	
TOLERANCE ±.01 PER ANSI Y14.5 REMOVE ALL DIMENSIONS BREAK EXTERNAL EDGES .005 TO .015 R1.0 TO R2.0 SOLDER THICKNESS PER MIL-C-8839 DIMS ON A COMMON ±.02-.005 MACHINED SURFACES DO NOT SCALE DRAWING		
DATE	QTY	REV
D	3CVE1	1.5G15A3F-XT-X-R
SCALE	1/1	SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas