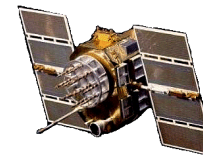




L1 GPS Antennas, P/N: 1.5G15X-XX-X-R

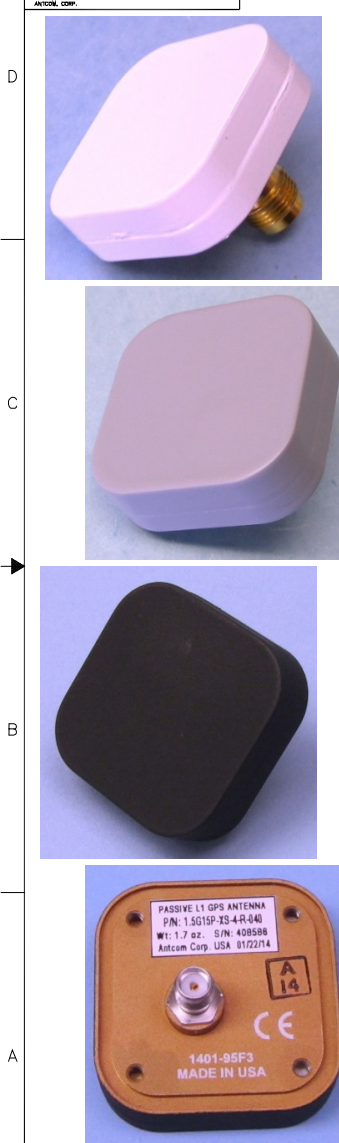
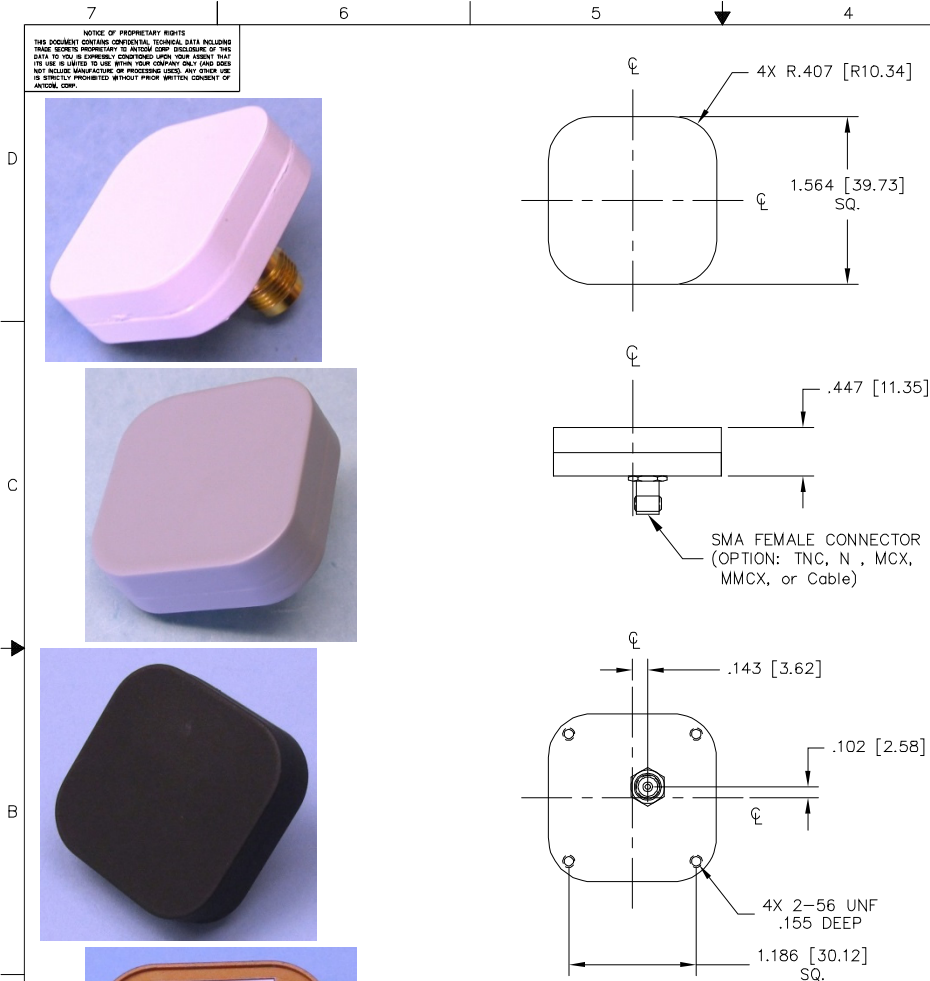
P/N: 1.5G15A-XT-1-R-HF (Active with Higher Rejection Filter to Reject Iridium Band)

1.5" Square, Back Mount Configuration



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>



NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY PROHIBITED UNLESS YOU AGREE THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR REPRODUCTION. ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

SPECIFICATIONS		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	2:1		
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-5441F

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

CONNECTOR: FEMALE SMA CONNECTOR
(OPTION: TNC, N , MCX, MMCX, or Cable)

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

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

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
-	ADHESIVE GASKET	123456-3M-1.5G	-	-	1
-2					

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

CABLE LENGTH:	CONNECTOR:	COLOR:	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES PER ASME Y14.5 ± 1/64 .004 .005 ± .1°	ORIGINAL DRAWN S. HUYNH Aug-27-03	<p style="text-align: center;">ANTCOM CORP. TORRANCE CALIFORNIA</p> <p style="text-align: center;">1.5" SQ. FLAT MOUNT L1 GPS ANTENNA</p>
X: NO CABLE	S: SMA; P: PINS	+1: GLOSS WHITE #17925 PER FED-STD-595B	TOLERANCE SVM PER ANSI Y14.5 REMOVE ALL DIMS FROM EXTERNAL EDGES .005 TO .015 FILETS R .005 TO R .030 SPIN IN HEADS PER MIL-C-8870 DIM'S ON A COMMON ± .005 MACHINED SURFACES	ORIGINAL DESIGNED S. HUYNH Aug-27-03	
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B		UPDATED S. HUYNH Oct-25-12	
#: CABLE LENGTH (IN)	N: N (Optional Bulkhead)	-3: CAMO GREEN #34094 PER FED-STD-595B		UPDATE DRAWN P. TRAN Oct-25-12	
R: RIGHT ANGLE CON.	T: TNC (Optional Bulkhead)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B		APPROVED S. HUYNH Oct-25-12	<p>REV: 1</p> <p>SCALE: 1/1</p> <p>SHEET 1 OF 1</p>

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas