

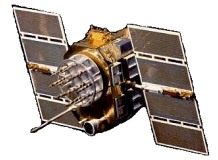


L1 GPS Antennas, P/N: 1.5G15X-XX-X

P/N: 1.5G15X-XX-X-9.65mm

P/N: 1.5G15A-3.5NRM-4-9.65 (3.5in Cable Right Angle MCX Male, Black)

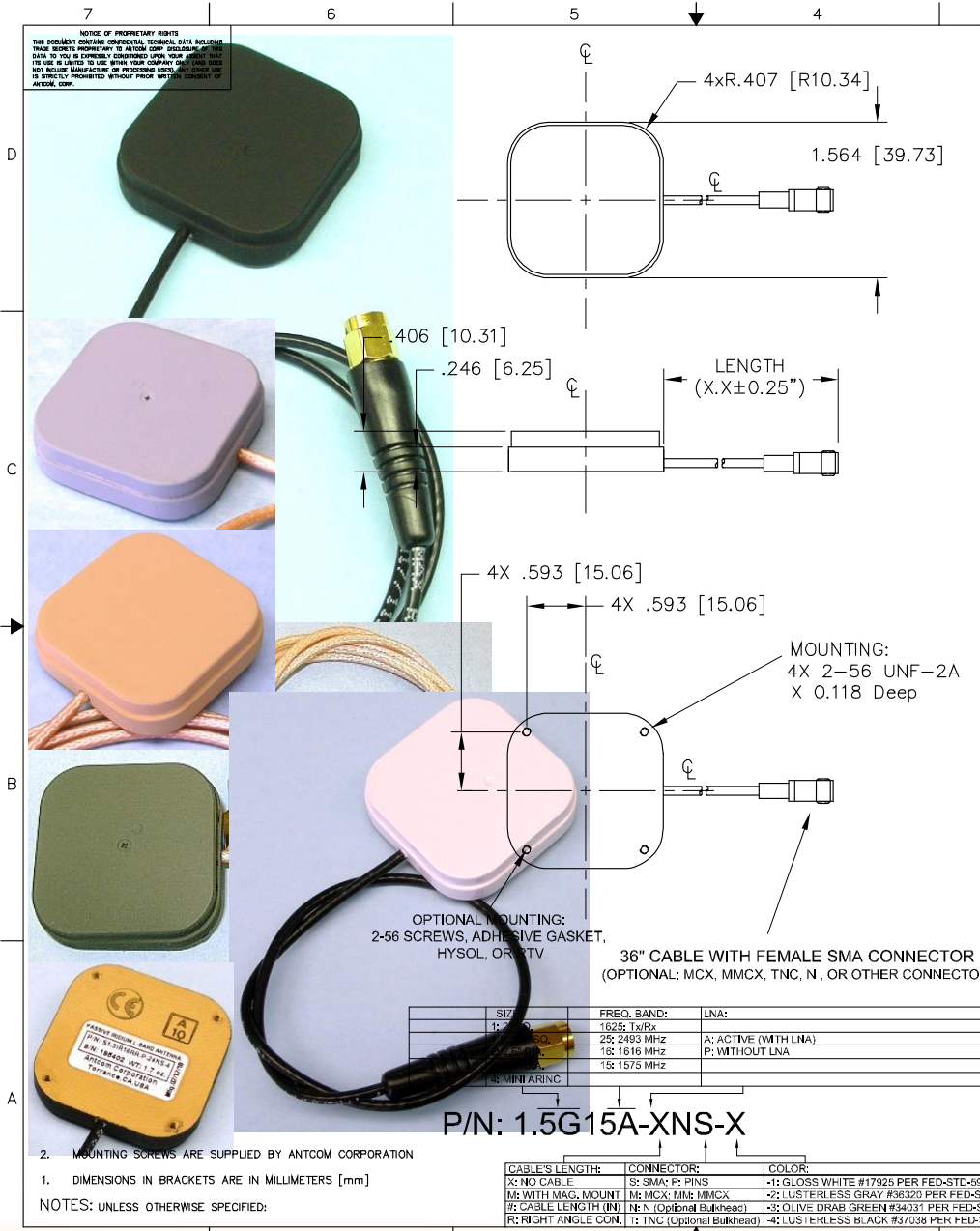
1.5" Square, Back Mount Configuration with Side Cable



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](mailto:antennas@antcom.com) . <http://www.antcom.com>



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**SPECIFICATIONS**

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		HEIGHT	12/09/15	S.H
B		CABLE LENGTH	03/14/17	S.H

**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= 0.406 in. [10.31 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 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, D0-228, MIL-C-5541,  
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REV
-	-	-	-	-	-	5
-	ADHESIVE GASKET	12345G-3M-1.5G	-	-	-	3
-	-	-	-	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .004 .015 ± 1°	ORIGINAL DRAWN S. HUYNH Aug-27-03	<p><b>ANTCOM CORP.</b> TORRANCE, CALIFORNIA</p> <p>1.5" SQ. FLAT MOUNT L1 GPS ANTENNA (With Cable)</p> <p>DATE: 03/14/17 D 3CVE1 1.5G15X-XX-X B</p>	
TOLERANCE 5V PER ANSI Y14.5	ORIGINAL DESIGNED S. HUYNH Aug-27-03		
REMOVE ALL DIMENSIONS FROM THIS DRAWING SPECIFIC DIMENSIONS TO BE SHOWN SPECIFIC DIMENSIONS TO BE SHOWN MACHINED SURFACES	UPDATED S. HUYNH Mar-14-17		
DO NOT SCALE DRAWING	UPDATE DRAWN P. TRAN Mar-14-17		
	APPROVED S. HUYNH Mar-14-17	SCALE 1/1	SHEET 1 OF 1

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

SIZE: 1.57in Square	FREQ. BAND: 1625: Tx/Rx	LNA:
WEIGHT: 1.5 oz. (42.5 g)	25: 2493 MHz	A: ACTIVE (WITH LNA)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL	16: 1616 MHz	P: WITHOUT LNA
COLOR: GLOSS WHITE #17925 PER FED-STD-595B	15: 1575 MHz	

CABLE LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
N: 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

P/N: 1.5G15A-XNS-X

NMO Connector Option is Now Available for Some Antennas