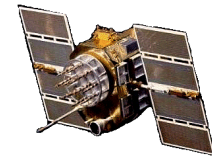




Active or Passive L1 GPS Antennas, P/N: 1G15X-MNX-X

2.0" Square, Flush Magnetic/Back Mount Side Connector 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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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

2.078 [52.78] SQ.

SPHERICAL R6.000 [R152.40]

ACTIVE L1/L2 GPS ANTENNA
P/N: 1G15A-MNSM-1
S/N: 18118 W/1.1 in. 11/18
Antcom Corporation
Torrance, CA, USA

4X R.780 [R19.81]

R.125 [R3.18]
.735 [18.67]
.180 [4.57]

4x FLUSH MAGNET
MOUNTING:
4X 4-40 UNF-2A
X 0.155 Deep,
10-32 UNF-2B
X 0.220 Deep
4x.756 [19.20]
4x.756 [19.20]

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):	+ 5.0	+ 2.5	+ 3.6
@ 10 ° Elevation:	- 2.3	- 2.9	- 1.7
@ 20 ° Elevation:	- 0.9	- 0.5	+ 1.0
@ 30 ° Elevation:	+ 0.7	+ 1.6	+ 2.4
@ 60 - 90° Elevation:	> 4.2	+4.7/+2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	107 Deg.	127 Deg.
AXIAL RATIO:	2 dB		
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN (OPTIONAL):	33 dB		
LNA NOISE FIGURE:	2.4 dB		
LNA P1dB Out:	+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24)V/<30mA		
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB		
@ (-100/+100) MHz	< -65 dB		

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
HEIGHT: 0.735 in. [18.67 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 2.88 oz. (82 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

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

CONNECTOR: SMA MALE
(OPTION: SMA-F, TNC, TNC-Bulkhead, N, N-Bulkhead,
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

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

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

TABLES:

SIZE	FREQ BAND	LNA
1.2" SQ.	1215:L1/L2	A: WITH LNA; A4 WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.9: 1.9" SQ.	15:L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and WITH LIMITER
4: MINI ARINC		A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

TABLES:

CABLE LENGTH	CONNECTOR	COLOR
MN: FLUSH MAGNET	SM: SMA-M.S. SMA: RS: R-SMA:	-1: GLOSS WHITE #17925 PER FED-STD-595B
N: NO MAG.	M: MCX: MM: MMCX: P: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	N: NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS	DECIMALS	ANGLES
2 1/64	.015	± 1°
	.0005	± 1°

ANTCOM CORP. TORRANCE CALIFORNIA

2in SQ. FLUSH MAGNETIC MOUNT, SIDE CONNECTOR L1 GPS ANTENNA

DRW: []
CHECKED: []
DESIGNED: []
APPROVED: S. HUYNH 01-05-23
CAD FILE NO: []

DR: []
DW: []
SHEET 1 OF 1

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas