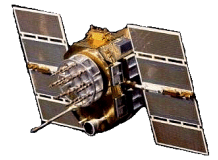




Active or Passive L1/L2 GPS Antennas, P/N: 1G1215X-MNX-X

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, #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:

	L1: (1575.42 ±15) MHz			L2: (1227.60 ±15) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.5:1			< 1.5:1		
IMPEDANCE:	50 ohms			50 ohms		
ANTENNA GAIN (dBic):	Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90° (ZENITH):	+3.7	+4.7	+3.1	-1.7	+3.3	+4.5
@ 10° Elevation:	-2.9	-1.8	-1.9	-7.3	-3.8	-3.5
@ 20° Elevation:	-1.3	-0.3	+0.6	-6.2	-2.0	-0.8
@ 30° Elevation:	0.0	+1.4	+1.7	-5.2	-0.5	+1.4
@ 60 - 90° Elevation:	> 3.0	> 3.9	> 2.4	> -3.2	> 2.7	> 2.2
BEAM WIDTH(3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.	106 Deg.	74 Deg.
AXIAL RATIO:	2 dB			2 dB		
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	33 dB			35 dB		
LNA NOISE FIGURE:	3.0 dB			3.0 dB		
LNA P1dB Out:	+13 dBm			+13 dBm		
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
REJECTION@ (-50/+50)MHz	-41 dB / -59 dB			-40 dB / -40 dB		
REJECTION@ (-100/+100)MHz	< -65 dB			< -65 dB		
POWER HANDLING	Passive: 100 W, Active: 1 W, Limiter: +50 dB in Max, +30 dB out Min					

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

MECHANICAL:

4X R.780 [R19.81]

SPHERICAL R6.000 [R152.40]

R.125 [R3.18]

.735 [18.67]

.180 [4.57]

.257 [6.52]

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]

SIZE:

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: 2.5" 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

P/N: 1G1215A-MNSM-1

CABLE'S 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

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

ZONE	REV	DESCRIPTION	DATE	APPROVED
1				

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

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

DRIVER: _____

CHECKED: _____

DESIGNED: _____

APPROVED: S. HUYNH
01-05-29

CAP FILE NO: _____

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

2in SQ. FLUSH MAGNETIC MOUNT, SIDE CONNECTOR L1/L2 GPS ANTENNA

DR: 3CVE11G1215A-MNSM-X

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas