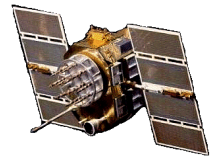




ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

Active or Passive L1/L2 GPS Antennas, P/N: 1G1215A-36MNR SMB-4
 P/N: 1G1215A-18MRS-4 (without magnet and with 18in Right Angle SMA on the side)
 2.0" Square, Flush Magnetic/Back Mount Side Connector Configuration



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>

2.078 [52.78] SQ.

4X R.780 [R19.81]

.257 [6.52]

R6.000 [R152.40]

.755 [19.18]

36in LMR100 Right Angle SMB Male

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 ±15) MHz		L2: (1227.60 ±15) MHz			
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			
@ (-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: 0.755 in. [19.17 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: 36in LMR100 Right Angle SMB 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	RECD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1		ADHESIVE GASKET	123456-3M-1G				5
1							3
1							2
1							1
-2	-1						

SIZE: FREQ. BAND: LNA:

1: 2" SQ. 1215; L1/L2 A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS

1.5: 1.5" SQ. 18; L1 ONLY AL: WITH LNA/LIMITER

2: 2.6" DIA. P: WITHOUT LNA

3: 3.5" DIA. PL: WITH-OUT LNA and WITH LIMITER

4: MINI ARINC A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES

± 1/64 .002 .005 ± 1°

TOLERANCE .5M PER ANSI Y14.5

HEAVY ALL SURFACES: BREAK EXTERNAL EDGES .005 TO .015

FILES R .005 TO R .015

SCREW HEADS PER MIL-C-8879

PLAYS ON A COMMON 6.25 DIA

MACHINED SURFACES 12/7

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

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

D3CVE1 1G1215A-36MNR SMB-4

SCALE 1/1 SHEET 1 OF 1

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH: CONNECTOR: COLOR:

MIN: FLUSH MAGNET SM: SMA-M/S: SMA: RS: R-SMA: -1: GLOSS WHITE #17925 PER FED-STD-595B

NO MAG. M: MCX: M/M: MMCX: P: PINS: -2: LUSTERLESS GRAY #36320 PER FED-STD-595B

R: RIGHT ANGLE CON. T: TB: TNC, TNC-Bulkhead H: OR LIVE DRAB GREEN #34094 PER FED-STD-595B

4: LUSTERLESS BLACK #37038 PER FED-STD-595B

NMO Connector Option is Now Available for Some Antennas