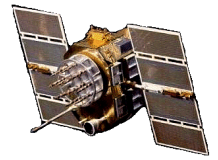




L1/L2 GPS Antennas, P/N: 1.9G1215A-8MM-4-2

2.0" Square, Flat Mount Configuration

with 8in Straight MMCX Black

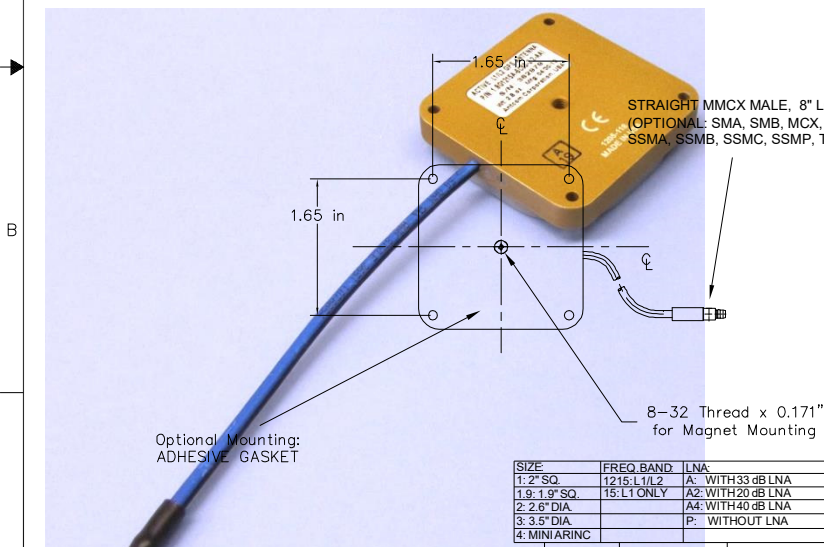
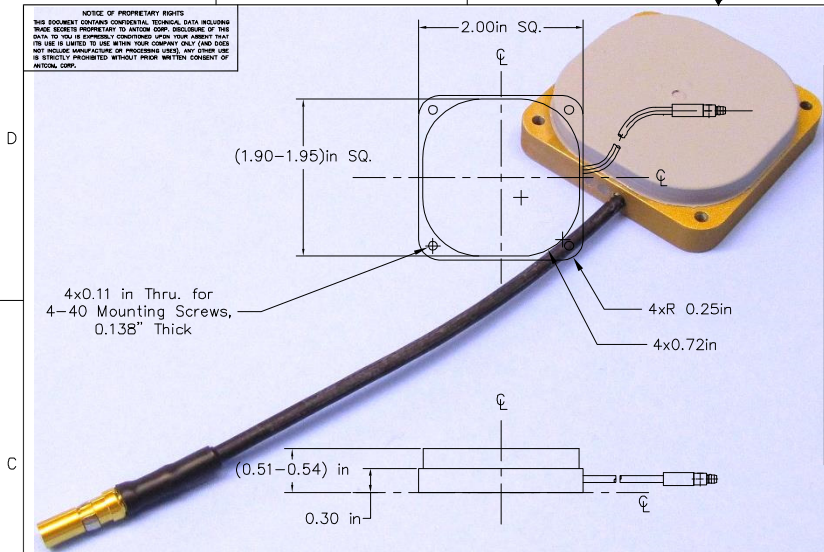


ISO 9001:2008/FAA Approved Facility

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>

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



SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz		L2: (1227.60 ±12) MHz	
	HEMISPHERICAL			
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
IMPEDANCE:	50 ohms		50 ohms	
ANTENNAGAIN (dBi):	Free Space	3 in G.P.	Free Space	3 in G.P.
@ 90° (ZENITH):	+ 3.7	+ 4.7	+ 3.1	- 1.7
@ 10° Elevation:	- 2.9	- 1.8	- 1.9	- 7.3
@ 20° Elevation:	- 1.3	- 0.3	+ 0.6	- 6.2
@ 30° Elevation:	0.0	+ 1.4	+ 1.7	- 5.2
@ 60 - 90° Elevation:	> 3.0	> 3.9	> 2.4	> - 3.2
BEAMWIDTH(3dB):	108 Deg.	114 Deg.	143 Deg.	100 Deg.
AXIALRATIO	2 dB		2 dB	
LIGHTNINGPROTECTION:	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	
POWERHANDLING	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)			

MECHANICAL:

SIZE: LENGTH = 2.00 in, WIDTH = 2.00 in.
HEIGHT = (0.51 - 0.53) in

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: STRAIGHT MMCX MALE, 8" LONG CABLE
(OPTION: SMB, SMC, SSMA, SSMA, SSMC, SSMP
MCX, MMCX, TNC, OR N)

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

SIZE	FREQ BAND	LNA:
1.2" SQ.	1215:L1/L2	A: WITH 33 dB LNA
1.9: 1.9" SQ.	15:L1 ONLY	A2: WITH 20 dB LNA
2: 2.6" DIA.		A4: WITH 40 dB LNA
3: 3.5" DIA.		P: WITHOUT LNA
4: MINI ARINC		

P/N: 1.9G1215A-8MM-4-2

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA, RS: R-SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG, N: NO MAG	M: MCX, MM: MMCX, SMB	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	SSMA, SSMB, SSMC, SSMP	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON	T: TB, TNC, BULKHEAD	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .015 ± 1°
XXX ± .005

TOLERANCE SYM PER ANSI Y14.5
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .015 ± 1°
XXX ± .005

DO NOT SCALE DRAWING

DESIGNED: M. BOAS
01-05-29

ENGINEER:

APPROVED: S. HUYNH
01-05-29

CAD FILE NO:

ANTCOM CORP. TORRANCE CALIFORNIA

2" SQ. ACTIVE OR
ACTIVE L1/L2 GPS
ANTENNA WITH CABLE

3CVE1|1.9G1215X-8MM-4-2|D

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:

NMO Connector Option is Now Available for Some Antennas