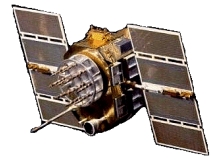




Glass Mount L1/L2 GPS Antennas, P/N: 2G1215A-GMS-X

2.6" Diameter, Glass/Magnetic Mount Configurations



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>

SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED

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 (dBi):		Free Space	3 in G.P.	4 ft G.P.	Free Space	3 in G.P.	4 ft G.P.
@ 90° (ZENITH):		+ 5.0	+ 4.7	+ 3.1	+ 0.7	+ 3.3	+ 4.5
@ 10° Elevation:		- 2.1	- 1.8	- 1.9	- 5.8	- 3.8	- 3.5
@ 20° Elevation:		- 0.6	- 0.3	+ 0.6	- 4.3	- 2.0	- 0.8
@ 30° Elevation:		+ 0.9	+ 1.4	+ 1.7	- 3.4	- 0.5	+ 1.4
@ 60 - 90° Elevation:		> 4.0	> 3.9	> 2.4	> - 0.9	> 2.7	> 2.2
BEAM WIDTH (3dB):		103 Deg.	114 Deg.	143 Deg.	94 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:		1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:	
SIZE:	DIAMETER: 2.60 in.[66.04 mm] HEIGHT: 1.0 in. [25.4 mm], 0.742 [18.85] for No Magnet Option
WEIGHT:	7.00 oz. [0.198 Kg], 4.00 oz. [0.113 Kg] (WITHOUT MAGNET)
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 FEMALE (OPTION: TNC, N, 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	MATERIAL	FINISH	REV
1	ADHESIVE GASKET	12345G-3M-2G			5
1					3
1					2
-2					1

PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMAL ANGLES ± 1/64 ± .015 ± 1°	ANTCOM CORP. TORRANCE CALIFORNIA
TOLERANCE 5/16 PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .000 TO .015 FILING IS OK TO 15 R CORN SHOW THERMOC PER MIL-C-8839 DATE ON A COMMON & 25000 MACHINED SURFACES	DRN: M. BOAS 01-05-29 ENGR: S. HUYNH APPROVED: S. HUYNH 01-05-29 DWG FILE NO: D:\3CVE1\2G1215A-GMS-X
DO NOT SCALE DRAWING	SCALE 1/1

MOUNTING/CABLE	CONNECTOR :	COLOR :
X: BOTTOM CONNECTOR	S: SMA; RS: R-SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
#N: NO MAGNET	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#M: WITH MAGNET	N, NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
#G: WITH GLASS MOUNT	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
#GM: GLASS/MAGNETIC MOUNT		
#: CABLE LENGTH, EMPTY FOR NO CABLE		

P/N: 2G1215A-GMS-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