



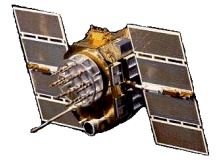
ISO 9001:2008/FAA Approved Facility

Active L1/L2 GPS Antennas, P/N: P/N: 1G1215A-2.9SMP-3

Paint with Olive Drab Green #34031 per Fed-Std-595B

2" Square, Back Mount, Bottom Center Connector Configuration

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



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4X R.780 [R19.81]
2.078 [52.78] SQ.
R6.000 [R152.40]
R.125 [R3.18]
.690 [17.53]
(2.91 +/- 0.03) in
4X .756 [19.20]
4X .756 [19.20]

MOUNTING:
4X 4-40 UNF-2A
X 0.155 Deep,
& ADHESIVE GASKET

SMP MALE CONNECTOR
(OPTION: TNC, TNC Bulkhead, N, N-Bulkhead, MCX, MMCX, or Cable)
Clearance Hole: 0.4" Dia.
0.52" Dia. for TNC Con.
0.63" Dia. for N Con.

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. 15; L1 ONLY AL: WITH LNA/LIMITER
2: 2.6" DIA. PL: WITHOUT LNA
3: 3.5" DIA. PL: WITHOUT LNA and THINNER (0.58" THICK)
4: MINI ARINC A2: WITH 20 DB LNA WITHOUT REJECTION FILTERS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 .XXX± .030 ± 1°
XXX± .015

1 0.32 BRUSH FINISH ON SURFACE INDICATED
2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 1G1215A-XSC-3

CABLE LENGTH: CONNECTOR: COLOR:
X: NO CABLE RSC: R-SMA; SCC: SMA -1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG. MC: MCX; MNC: MMCX; PC: PINS -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
IF: CABLE LENGTH (IN) NC: NCS; N: Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON. TC, TBC: TNC, TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B
-5: TAN #: FS 23446 or 33446, FED-STD-595

SPECIFICATIONS

ZONE	REV	DESCRIPTION	REVISIONS				
			DATE	APPROVED			
ELECTRICAL:							
FREQUENCY:		L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz				
RADIATION PATTERN:		HEMISPHERICAL					
POLARIZATION:		RHCP					
VSWR:		< 1.5:1					
IMPEDANCE:		50 ohms					
ANTENNA GAIN (dBic):		Free Space	3 in G.P.	4 ft G.P.			
@ 90 ° (ZENITH):		+ 3.7	+ 4.7	+ 3.1			
@ 10 ° Elevation:		- 2.9	- 1.8	- 1.9			
@ 20 ° Elevation:		- 1.3	- 0.3	+ 0.6			
@ 30 ° Elevation:		0.0	+ 1.4	+ 1.7			
@ 60 - 90 ° Elevation:		> 3.0	> 3.9	> 2.4			
BEAM WIDTH (3dB):		108 Deg.	114 Deg.	143 Deg.			
AXIAL RATIO:		2 dB					
LIGHTNING PROTECTION:		DC GROUNDING					
LNA GAIN:		33 dB					
LNA NOISE FIGURE:		3.0 dB					
LNA P1dB Out:		+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					
@ (-100/+100) MHz		< -65 dB					
POWER HANDLING:		1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					
MECHANICAL:		LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm] HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)					
WEIGHT:		3.0 oz. (85 g)					
FINISH:		SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441, With Radome matching color					
MATERIAL:		6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT					
CONNECTOR:		SMP MALE (OPTION: 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	RECORD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	TRM NO.
1		ADHESIVE GASKET	123456G-3M-1G				5
1							3
1							2
1							1
-2	-1						

NMO Connector Option is Now Available for Some Antennas