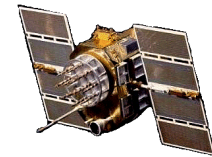




Passive L1/L2 GPS Antenna, P/N: 3G1215P-XX-X

3.5" Diameter, Conformal Configurations



ISO 9001:2008/FAA Approved Facility

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

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1			

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	RHCP
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.
	@ 90 ° (ZENITH):	+ 4.7 + 3.5 + 3.3 + 4.9
	@ 10 ° Elevation:	- 1.8 - 2.0 - 3.8 - 3.6
	@ 20 ° Elevation:	- 0.3 + 0.8 - 2.0 - 0.1
	@ 30 ° Elevation:	+ 1.4 + 1.8 - 0.5 - 1.8
	@ 60 - 90 ° Elevation:	> 3.9 > 2.7 > 2.7 > 3.0
BEAM WIDTH (3dB):	114 Deg.	139 Deg.
AXIAL RATIO:	2 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING	
POWER HANDLING:	200 Watt CW	

MECHANICAL:

SIZE: DIAMETER = 3.50 in. [88.90 mm]
HEIGHT = 0.560 in. [14.22 mm]

WEIGHT: 4.00 oz. (113 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM PER MIL-C-5441
GLOSS WHITE #17925 PER FED-STD-595B

COLOR: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: SMA RIGHT ANGLE FEMALE
(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

RIGHT ANGLE SMA FEMALE (M/A-COM P/N: 2086-0000-00 OR EQUIVALENT)
0.4" Dia Clearance Hole for SMA/MCX, MMCX Con.
0.52" Dia Clearance Hole for TNC Con.
0.63" Dia Clearance Hole for N Con.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS TO BE DECIMALS
± 1/64
DECIMALS ± 0.015
± 0.005

ANTCOM CORP. TORRANCE, CALIFORNIA
OUTLINE DRAWING
L1/L2 PASSIVE
GPS ANTENNA

SCALE 1/1

SHEET 1 OF 1

SIZE : FREQ. BAND : LNA :

1: 2" SQ. 1215: L1/L2 A: WITH LNA

1.9: 1.9" SQ. 15: L1 ONLY AL: WITH LNA/LIMITER

2: 2.8" DIA. P: WITHOUT LNA

3: 3.5" DIA. PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")

4: MINI ARINC

QUANTITY REQD

QTY	DESCRIPTION	PART NO	FINISH	REV
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	5
1	ADHESIVE GASKET	12345G-3M-3G	-	1

PARTS LIST

SIZE	FREQ. BAND	LNA
1: 2" SQ.	1215: L1/L2	A: WITH LNA
1.9: 1.9" SQ.	15: L1 ONLY	AL: WITH LNA/LIMITER
2: 2.8" DIA.	P: WITHOUT LNA	
3: 3.5" DIA.	PL: WITHOUT LNA and THINNER (HEIGHT = 0.58")	
4: MINI ARINC		

CABLE'S LENGTH **CONNECTOR :** **COLOR :**

X: NO ADAPTE R	S: SMA: RS: R-SMA: P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG	M: MCX: MM: MMCX	2: LUSTERLESS GRAY #30320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N, N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
A: WITH ADAPTER	T, TB: TNC, TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS & GASKET ARE SUPPLIED BY ANTCOM

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

P/N: 3G1215P-XRS-1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS TO BE DECIMALS
± 1/64
DECIMALS ± 0.015
± 0.005

TOLERANCE 5/16 PER ANSI Y14.5
BREAK EXTERNAL EDGES .000 TO .015
FALLS IN .005 PER FED-STD-595B
DAYS ON A COMMON 4 25,000
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
OUTLINE DRAWING
L1/L2 PASSIVE
GPS ANTENNA
SCALE 1/1
SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas