



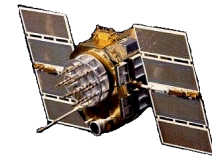
ISO 9001:2008/FAA Approved Facility

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

Passive L1/L2 GPS Antennas, 1.9G1215P-XSO-2 Rev E

1.9G1215PF-3RMMO-2 Rev E (With Filter and 3in Right Angle MMCX Cable, Thickness =0.5in)



2.0" Square, Flat Mount Configurations



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1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

1. NO CABLE
2. NO MAG.
3. CABLE LENGTH (IN)
R: RIGHT ANGLE CON.

2. SMA: RSRP-SMA: P: PINS
D: 0.015" MIN. MAG.
N: N: N-Bulkhead
T: TB: TNC, TNC-Bulkhead

3. COLOR:
-1: GLOSS WHITE #17925 PER FED-STD-595B
-2: GLOSS WHITE #17925 PER FED-STD-595B
-3: CAMO GREEN #34094 PER FED-STD-595B
-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

4. MIN. ARINC

5. SIZE: FREQ. BAND: LNA:
1: 2" SQ. 1215: L1/L2 A: WITH 33 dB Gain LNA
1.8"-1.9" SQ. 15: L1 ONLY A2: WITH 20 dB Gain LNA WITHOUT REJECTION FILTERS
2: 2.8" DIA. P: WITHOUT LNA
3: 3.5" DIA. A4: WITH 40 dB Gain LNA WITHOUT REJECTION FILTERS
4: MIN. ARINC

6. P/N: 1.9G1215P-XSO-2

7. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS TO DECIMALS: ANGLES TO DEGREES
± 1/64 ± .002, .015 ± .1°
± .005 ± .005 ± .1°
MACHINED SURFACES
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA
L1/L2 PASSIVE OR ACTIVE GPS ANTENNA
D3CVE1 1.9G1215P-XSO-2
SCALE 1/1 SHEET 1 OF 1

7 6 5 4 3 2 1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
D	2.004in to (2.006+/-0.015)in		May-10-10	S.H
E	Delete Note 2 for Gasket		Aug-08-12	S.H

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±12) MHz			L2: (1227.60 ±12) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.7:1			< 1.7:1		
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 (OPTIONAL):	33 dB (Option A), 20 dB (Option A2)					
LNA NOISE FIGURE:	3.0 dB (Option A), 2 dB (Option A2)					
LNA P1dB Out:	+13 dBm					
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/-50mA					

MECHANICAL:

SIZE: LENGTH = 2.000 in, WIDTH = 2.000 in
HEIGHT = 0.400in

WEIGHT: 2.1 oz. (62 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM PER MIL-C-5541F Type I Class 1A or 3

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

CONNECTOR: SMA FEMALE CONNECTOR
(OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, SMA, 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	SPECIFICATION	MATERIAL	FINISH	REV
1						5
1						3
1						2
1						1
-2						1

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D3CVE1 1.9G1215P-XSO-2
SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas