



FAA Approved Facility

RHCP/LHCP L1/L2 GPS Antenna, P/N: 1.2G1215P2-NSSF-4:

1.2" Square, Flat Mount Configuration



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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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SPECIFICATIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		3dB More In Gain	Sep-21-06	S.H

ELECTRICAL:

	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
FREQUENCY:		
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	DUAL RHCP/LHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space 3 in G.P.	Free Space 3 in G.P.
@ 90° (ZENITH):	-0.8 +3.8	-3.7 +2.7
@ 10° Elevation:	-9.3 -4.3	-9.9 -6.3
@ 20° Elevation:	-6.8 -2.2	-9.2 -4.2
@ 30° Elevation:	-5.2 -0.7	-7.8 -2.4
@ 60 - 90° Elevation:	> -2.1 > 2.5	> -4.7 > 1.3
BEAMWIDTH (3dB):	100 Deg. 120 Deg.	100 Deg. 90 Deg.
AXIAL RATIO:	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

LNA OPTION:

LNA GAIN: 24.0 dB
 LNA NOISE FIGURE: 1.8 dB
 LNA P 1dB Out: +16 dBm
 VOLTAGE/CURRENT: (+2.8 TO +28) Volts DC / (15 TO 25) mA

MECHANICAL:

SIZE: 1.250 in. [31.75 mm] SQ.
 HEIGHT: 0.547 in. [13.89 mm]
 WEIGHT: 1.1 oz. (31.2 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
 CONNECTOR: 4.5" LONG FLEXIBLE CABLE with RIGHT ANGLE MMCX (OPTION: MCX, SMA, SMB, SSMA, SSMB, SSMC, OR TNC)

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

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	REF NO
5						
1	ADHESIVE GASKET	12345G-3M-1.2G				3
1						2
1						1
-2						-1

P/N: 1.2G1215P2-8NSSF-4

SIZE	FREQ. BAND	LNA:
1: 2" SQ.	1215: L1/L2	A2: WITH20 dB LNA
1.8, 1.9" SQ.	15: L1 ONLY	A4: WITH40 dB LNA
2: 2.6" DIA.		P: PASSIVE (WITHOUT LNA)
3: 3.5" DIA.		P2: DUALCP/RHCP/LHCP AND PASSIVE (WITHOUT LNA)
4: MINI ARINC		P2L: DUALLINEAR (VERT. HOR. AND PASSIVE (WITHOUT LNA)

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	SS: SMA MALE, SSF: SMA FEMALE	-1: GLOSS WHITE #17925 PER FED-STD-595B
F: CABLE LENGTH (IN)	MM: MCK MALE, MMF: MCK FEMALE	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	OTHER CONNECTORS ARE ALSO AVAILABLE	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

ANTCOM CORP. TORRANCE, CALIFORNIA

DUAL RHCP/LHCP
L1/L2 ACTIVE OR PASSIVE
GPS ANTENNA

SCALE 1/1 SHEET 1 OF 1

http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts1.pdf (Amplifiers/Power Divider/Combiner/Filters)