



FAA Approved Facility

2 Element CRPA L1/L2 GPS Antenna

P/N: 2NF-1.2RG1215P2-1.2J11.9J2UFL-4 (J1 = L1 RHCP, J2 = L2 RHCP)

With Cables and U.FL Connectors

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>

SPECIFICATIONS

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz		
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	DUAL RHCP/LHCP			
VSWR:	< 1.5:1	< 1.5:1		
IMPEDANCE:	50 ohms	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
BEAM WIDTH (3dB):	100 Deg.	120 Deg.	100 Deg.	90 Deg.
AXIAL RATIO:	2.5 dB		3 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: 3.047 in. [77.40 mm] x 1.445 in. [36.70 mm]
 HEIGHT: .551 in. [14.00 mm]
 WEIGHT: 2.4 oz. (68 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: J1: (2X) 1.2IN [30.48MM] CABLE/U.FL CONNECTOR
 J2: (2X) 1.9IN [48.26MM] CABLE/U.FL CONNECTOR
 (OPTION: SMB, SMC, SMP, SSMA, SSBM, SSMC, SSSM, OR HFL)

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-1L2-100

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1	2	3	4	5	6	7
1						
2						
3						
4						
5						
6						
7						

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	UNIT
1						
2						
3						
4						
5						
6						
7						

FREQ. BAND:	LINA:	CONNECTOR:	COLOR:
1215: L1/L2	A2: WITH 20 dB LNA	UFL: U.FL	-1: GLOSS WHITE #17925 PER FED-STD-595B
15: L1 ONLY	A4: WITH 40 dB LNA	S: SMA, T: TNC	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	P: PASSIVE (WITHOUT LNA)	NM: MMX, SMB, SMC, SSMA, SSBM, SSMC, SMP, SSSM, HFL	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
	P2: J1: (L1/L2 RHCP), J2: (L2 RHCP)	X: CABLE (TRIMMED)	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	P2S: J1: (L1/L2 RHCP), J2: (L1/L2 LHCP)		-5: TAN #33446 PER FED-STD-595B
	P2L: J1: (L1/L2 LINEAR-E), J2: (L1/L2 LINEAR-H)		

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP. TORRANCE, CALIFORNIA
COMPLETED DIMS IN INCHES	2 ELEMENT L1L2 GPS RHCP-LHCP ANTENNA ARRAY
FRACTIONS TO BE DECIMALS	D 3CVE1
± 1/64	SCALE 1/1
TOLERANCE SURF PER ANSI Y14.5	SHEET 1 OF 1
BREAK EXTERNAL EDGES .005 TO .015	
FILED & DIMS TO BE .005	
STAIR INCREASE PER MIL-C-8879	
DIMS ON A DIMENSION LINE	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

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