



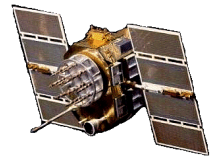
Active L1/L2 GPS Antennas (20dB), P/N: 1G1215A2F-XXC-X

P/N: 1G1215AL-XSC-X-LN2.5 (33dB With Limiter)

P/N: 1G1215AF-XSC-X-LN2.5 (33dB With Filter)

P/N: 1G1215ALF-XSC-X-LN2.5 (33dB With Limiter and Filter)

2" Square, Flat Top, No Paint, Back Mount, Bottom Center SMA Female Connector Configuration







ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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

7 6 5 4 3 2 1

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THE DATA TO YOU IS EXPRESSLY CONDITIONED UPON YOUR AGREEMENT THAT YOU WILL USE IT ONLY TO USE WITH YOUR COMPANY'S OWN EQUIPMENT. YOU WILL NOT REPRODUCE, COPY, REVERSE ENGINEER, OR DISSEMINATE THIS DOCUMENT OR ITS CONTENTS WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP.

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 ± .005 ± .030 ± .015

032 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:

5 4 3 2 1

SPECIFICATIONS

ELECTRICAL:

	L1: (1575.42 ±15) MHz			L2: (1227.60 ±15) MHz		
FREQUENCY:						
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP			RHCP		
VSWR:	< 1.5:1			< 1.5:1		
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:	33 dB (-A2- for 20 dB)			33 dB (-A2- for 20 dB)		
LNA NOISE FIGURE:	3.0 dB			3.0 dB		
LNA P1dB Out:	+13 dBm			+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			-40 dB / -40 dB		
@ (-100/+100) MHz:	< -65 dB			< -65 dB		
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)					

MECHANICAL:

SIZE: LENGTH: 2.080 in. [52.78 mm], WIDTH: 2.080 in. [52.78 mm]
HEIGHT: 0.545 in. [13.84 mm]

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: SMA FEMALE 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

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

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 ± .005 ± .030 ± .015

ANTCOM CORP. TORRANCE CALIFORNIA
Center Connector,
2in Square Active
L1/L2 GPS ANTENNA
D3CVE11G1215A2F-XXC-X
SCALE 1/1 SHEET 1 OF 1

7 6 5 4 3 2 1

2.078 [52.78] SQ.
1.984 [50.39] SQ.
R.780 [R19.81]
R.752 [R19.10]

2.50 [6.35]
.545 [13.84]

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

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

P/N: 1G1215A2F-XXC-X

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A: WITH LNA; A4: WITH 40 DB LNA WITHOUT REJECTION FILTERS
1.8: 1.9" SQ.	15: L1 ONLY	AL: WITH LNA/LIMITER
2: 2.6" DIA.		P: WITHOUT LNA
3: 3.5" DIA.		PL: WITHOUT LNA and THINNER (0.58" THICK)
4: MINI ARING		AZ: WITH 20 DB LNA, WITH REJECTION FILTERS/ FLAT RADOME

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	RSC: R-SMA; SC: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
MI: MAG. N. NO MAG.	MC: MCX; MMC: MMCX; PC: PINS	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
FR: CABLE LENGTH (IN)	NC: NDC; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
FR: 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; -X: NO PAINT

NMO Connector Option is Now Available for Some Antennas