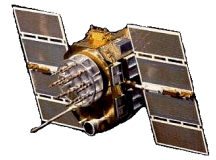




Passive L1/L2 GPS Antenna, P/N: 2.3G1215X-XRS-4

Low Profile 2.3" Square, Flat/Back Mount Configuration

Suitable for Forming Multiple Element CRPA



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>

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2.31 [58.56] SQ.
1.91 [48.56] SQ.

4x.12 [R3.00]
4xR.72 [R18.19]
4x.15 [Ø3.70] Thru.

4x.20 [5.00]
4x.20 [5.00]

.37 [9.35]
.28 [7.19]
.09 [2.16]
.41 [10.29]
.20 [5.00]

.20 [5.00]

SMA Right Angle Female Con.
(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.

2. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

P/N: 2.3G1215P-XRS-4

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.	1215: L1/L2	A2: WITH 20 dB LNA
1.9: 1.9" SQ.	15: L1 ONLY	A4: WITH 40 dB LNA
2.3: 2.3" SQ.		P: WITHOUT LNA
2: 2.6" DIA.		P2: WITHOUT LNA, WITH RHCP/LHCP POLARIZATION
3: 3.5" DIA.		P2L: WITHOUT LNA, WITH DUAL LINEAR POLARIZATION

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: P2; PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. N: NO MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: NB; RS: R-SMA	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ZONE	REV	REVISIONS	
		DESCRIPTION	DATE

ELECTRICAL:

FREQUENCY:	L1: (1575.42±12) MHz	L2: (1227.60±12) MHz
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
ANTENNA GAIN (dBic):	Free Space	3 in G.P.
@ 90° (ZENITH):	+ 2.7	+ 3.1
@ 10° Elevation:	- 4.4	- 1.8
@ 20° Elevation:	- 2.3	- 0.3
@ 30° Elevation:	- 0.8	+ 1.4
@ 60 - 90° Elevation:	> 2.0	> 3.9
BEAM WIDTH (3dB):	113 Deg.	143 Deg.
AXIAL RATIO:	2 dB	
LIGHTNING PROTECTION:	DC GROUNDING	

LNA OPTION:

LNA GAIN: (21.0+/-2.0) 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: 2.31 in. [58.56 mm] SQ.
HEIGHT: 0.37 in. [9.35 mm]
WEIGHT: 2.3 oz. (65.2 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: SMA FEMALE
(OPTION: PIN, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A AND MIL-STD-810

1	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS TOLERANCES ARE DECIMALS ANGLES ± 1/64 .XXX ± 1°					
	TOLERANCE 5M PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILETS R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON & Z .005					
	MACHINED SURFACES					
	DO NOT SCALE DRAWING					

ANTCOM CORP. TORRANCE, CALIFORNIA

2.3" SQUARE, L1/L2 PASSIVE GPS ANTENNA

DRAWN: S. HUYNH
CHECKED: S. HUYNH
APPROVED: S. HUYNH
CAD FILE NO: D 3CVE1

SCALE 1/1

SHEET 1 OF 1