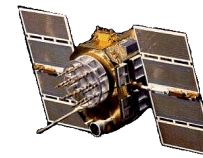




Active or Passive L1/L2 GPS Antennas, P/N: 3CG1215X-XX-X-X

3.5" Square, Xin Radius Conformal Configurations



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

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4xR.250 [R6.35]

3.500 [88.90] SQ.

4x1.500 [38.10]

4x3.000 [76.20]

8x.213 [Ø5.41]

∇ Ø.385 [Ø9.78] X 100° (3)

∅.655 [16.64]

.148 [3.76]

.136 [3.45]

0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA/R-SMA), 0.57" [14.53] (TNC), 0.83" [21.00] (TNC-BH), 0.72" [18.29] (N, N-BH)

0.530 [13.47]

0.530 [13.47]

2.242 [56.95] SQ.

4xR.862 [R21.89]

SMA RIGHT 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.

NAMEPLATE APPROXIMATE LOCATION Start S/N: 1001

ANTENNA'S NORTH (FORWARD) DIRECTION INDICATION

SIZE : FREQ. BAND : LNA : CONFORMAL RADIUS OPTION:
1: 2" SQ. 1215: L1/L2 A: WITH LNA -3: 3.000" RADIUS
1.9: 1.9" SQ. 15: L1 ONLY AL: WITH LNA/LIMITER/FILTER (INPUT: +50dBm, OUTPUT: +30 dBm) -3.5N: 3.500" RADIUS (NETIFRE, GMLRS, NLOS)
2: 2.6" DIA. P: WITHOUT LNA -4P: 4.000" RADIUS (PAVEWAY)
3: 3.5" DIA. PL: PASSIVE WITH LIMITER/FILTER (INPUT: +50dBm, OUTPUT: +30 dBm) -6M: 6.000" RADIUS (MAVERICK)
4: MINI-ARINC -7.5EM: 7.500" RADIUS (EGBU, MALD)
-14A: 14.00" RADIUS (ACM)
-X: X" RADIUS (Ø: Flat, No Radius)

P/N: 3CG1215P-XRS-3-X

CABLE'S LENGTH : FEMALE CONNECTOR : COLOR :
X: NO CABLE S: SMA, RS: R-SMA -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: N, N-Bulkhead -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
T, TB: TNC, TNC-Bulkhead -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

SPECIFICATIONS

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±15) MHz	L2: (1227.60 ±15) MHz		
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	RHCP	RHCP		
VSWR:	< 1.5:1	< 1.5:1		
IMPEDANCE:	50 ohms			
ANTENNA GAIN (dBc):	Free Space	24 in Dia. Tube, 2 ft Long		
	Free Space	24 in Dia. Tube, 2 ft Long		
@ 90° (ZENITH):	+ 4.5	+ 4.2	+ 2.5	+ 4.6
@ 10° Elevation:	- 1.5	- 3.0	- 4.3	- 2.1
@ 20° Elevation:	0.0	- 0.9	- 3.0	- 0.9
@ 30° Elevation:	+ 1.1	+ 1.1	- 1.5	+ 0.4
@ 60 - 90° Elevation:	> 3.0	> 2.8	> 1.7	> 3.1
BEAM WIDTH (3dB):	112 Deg.	120 Deg.	104 Deg.	102 Deg.
AXIAL RATIO:	2 dB		2 dB	
LIGHTNING PROTECTION:	DC GROUNDING			
POWER HANDLING:	200 Watt CW			

MECHANICAL:

SIZE: 3.50 in. [88.90 mm] SQ.
HEIGHT = 0.655 in. [16.64 mm]
WEIGHT: <5.5 oz. (160 g)
FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441
COLOR: FIELD GREEN, FED-STD-595, COLOR#34095
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT
CONNECTOR: SMA RIGHT ANGLE FEMALE
(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

4	-	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274	-	5
1	1				1
-2	-1	DESCRIPTION	PART NO	FINISH	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ± 1/64 DECIMALS ± 1° ANGLES ± 1/64 DECIMALS ± 1°

TOLERANCE 5TH PER ASH 174.0
BREAK EXTERNAL EDGES 90° TO .015
FILLER TO JOE TO .005
DAYS ON A COAST 8 27.000
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5" SQ. CONFORMAL L1/L2 GPS ANTENNA

DESIGNED BY: M. BOAS 01-05-29
DRAWN BY: S. HUYNH 01-05-29
CHECKED BY: S. HUYNH 01-05-29
APPROVED BY: S. HUYNH 01-05-29

D 3CVE1 3CG1215P-XRS-3-X

SCALE 1/1 SHEET 1 OF 1