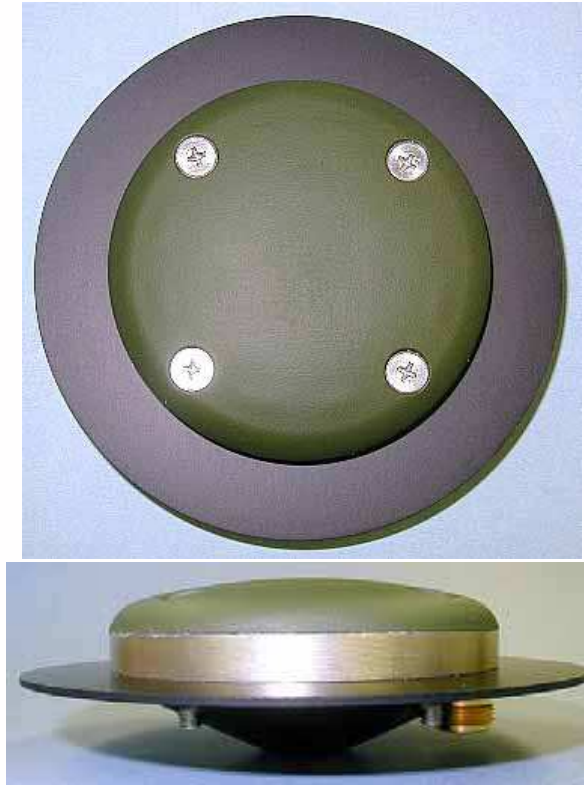




ANTCOM CORPORATION . 367 Van Ness Way, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com



P/N: 5GO1215A-XN-1 (N)



P/N: 5GO1215A-XX-4



P/N: 5GO1215A-XT-3
(TNC)



Active or Passive L1/L2 GPS/Omnistar Antennas, P/N: 5GO1215A-XT-X: 3.5" Diameter, Survey and Pipe Mount Configurations



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REMOVABLE GROUND PLANE

PHASE CENTER:
x=y=0;
z=.462 [11.73]

NAMEPLATE APPROXIMATE LOCATION

TNC FEMALE CONNECTOR
(OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

THD 0.625-11UNC-2B x0.7" Deep

4X Ø.20 [Ø5.11] Thru. Ø.385 [Ø9.78] X 100' for 10-32 MOUNTING SCREWS

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ±12) MHz	O: (1542.5±17.5)MHz	L2: (1227.60 ±12) MHz			
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					
IMPEDANCE:	50 ohms					
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 °(ZENITH):	+ 4.1	+ 2.5	+ 5.7	+ 2.5	+ 3.9	+ 4.9
@ 10 °Elevation:	- 3.5	- 3.0	- 1.8	- 3.0	- 3.8	- 3.6
@ 20 °Elevation:	- 2.1	- 0.2	- 0.4	- 0.2	- 2.3	- 0.1
@ 30 °Elevation:	- 0.8	+ 0.8	+ 0.9	+ 0.8	- 0.7	- 1.8
@ 60 - 90 °Elevation:	> 2.5	> 1.8	> 4.1	> 4.1	> 3.0	> 3.0
BEAM WIDTH (3dB):	87 Deg.	139 Deg.	89 Deg.	139 Deg.	97 Deg.	75 Deg.
AXIAL RATIO:	2 dB		2 dB		2 dB	
LIGHTNING PROTECTION:	DC GROUNDING					
LNA GAIN:	35 dB		35 dB		35 dB	
LNA NOISE FIGURE:	2.8 dB		2.8 dB		3.0 dB	
LNA P1dB Out:	+13 dBm		+13 dBm		+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
POWER HANDLING:	1 Watt CW					

MECHANICAL:

SIZE: DIAMETER: 3.50 in.[88.90 mm]
HEIGHT: 0.690 in. [17.53 mm], 0.58" [14.73] (Optional for Passive)

WEIGHT: 6.8 oz. (191 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL WITH NICKEL PLATED BASE

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE CONNECTOR
(OPTION: SMA, 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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	NEW P/N
4	MOUNTING SCREWS: 10-32, 3/4"		MS24693C274	-	5
1	5" DIA. GROUND PLANE		12G1215PD01-B6	-	3
1	SURVEY ANTENNA MOUNT		MTR-3	-	2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: ± 1/64 ± 0.015 ± 1'

TOLERANCE 5TH PER ANSI Y14.5

REMOVE ALL BURRS

BREAK INTERNAL EDGES .005 TO .015

FALLS IN .002 TO .010

SOFTEN MEDIUM PER MIL-C-27000

DATE ON A COMPANY 11/27/05

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

OUTLINE DRAWING
ACTIVE L1/L2 GPS/
OMNISTAR ANTENNA

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

SCALE 1/1

SHEET 1 OF 1

P/N: 5GO1215A-XT-1

SIZE :	FREQ. BAND :	LNA :	CABLES LENGTH :	CONNECTOR :	COLOR :
1: 2" SQ.	42: ARINC 743	GO1215: L1/L2/Omnistar	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS
1.9: 1.9" SQ.	5: 5" CIRCULAR	GO15: L1/Omnistar	AL: WITH LNA/LIMITER	M: MAG. N: NO MAG.	M: MCK; MM: MMCX
2: 2.5" DIA.		G1215: L1/L2	P: WITHOUT LNA	R: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead
3: 3.5" DIA.		G15: L1			T: TB; TNC; TNC-Bulkhead
4: MINI ARINC					