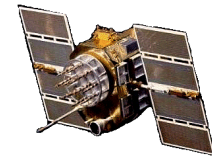




Active L1 GPS Antenna, P/N: 123G15A-XT-1

12" Diameter Choke Ring, Pipe Mount Configuration



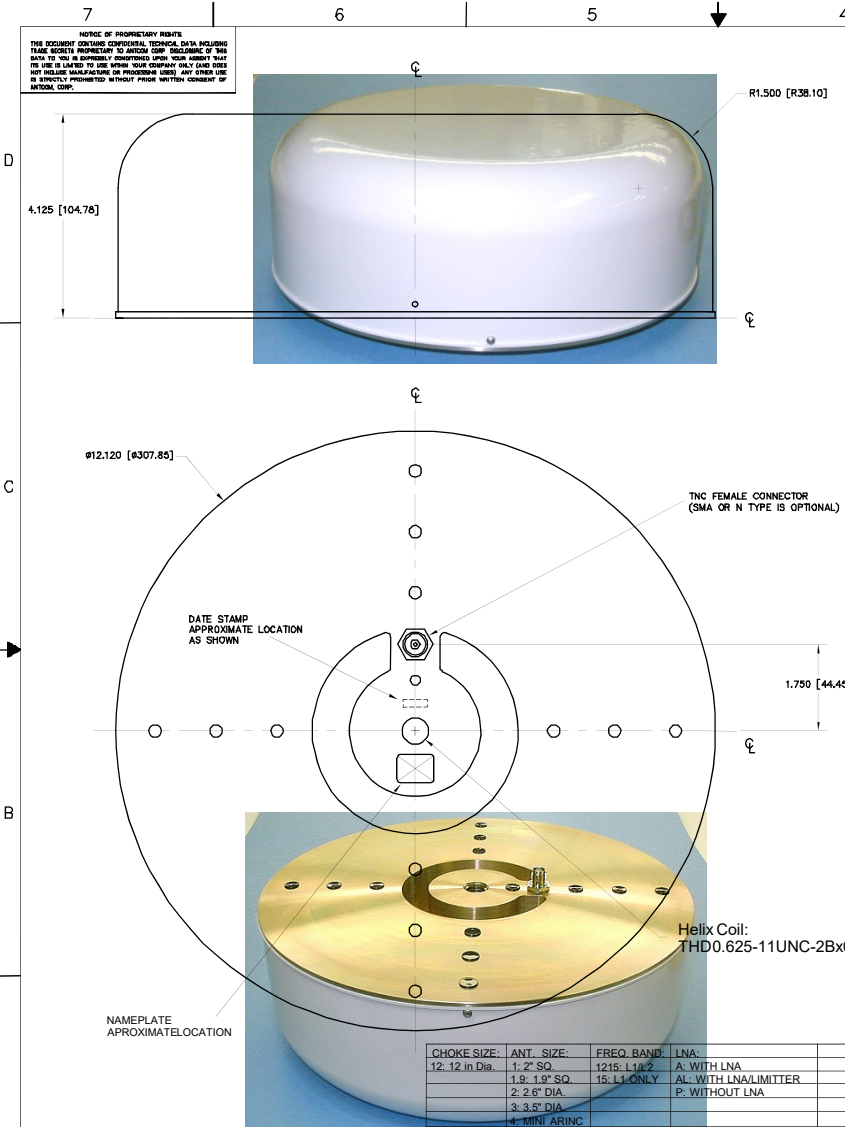
ISO 9001:2008/FAA Approved Facility

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>

NMO Connector Option is Now Available for Some Antennas

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SPECIFICATIONS

REVISIONS		DATE	APPROVED
ZONE	REV	DESCRIPTION	

ELECTRICAL:

FREQUENCY:	L1: (1575.42 ± 13) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
IMPEDANCE:	50 ohms	
GAIN (dBic) & AR (dB)	GAIN	AR
@ 90° (Zenith):	+8.2	2.4
@ 10° Elevation:	-5.0	3.0
@ 20° Elevation:	-2.3	3.0
@ 30° Elevation:	-0.5	3.0
@ 45° Elevation:	+3.0	3.0
@ 70° Elevation:	+7.0	2.0
BEAM WIDTH (3dB)	70.0 Deg.	
LIGHTNING PROTECTION:	DC GROUNDING	
LNA GAIN:	33 dB	
LNA NOISE FIGURE:	2.2 dB	
LNA P1dB Out:	+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/20mA, 3.3V/20mA, (2.5-24V) / < 30mA	
REJECTION @ (-50/+50) MHz	-45 dB / -70 dB	
@ (-100/+100) MHz	< -65 dB	
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE:	DIAMETER: 12.120 in [307.85 mm] HEIGHT: 4.125 in. [104.78 mm]
WEIGHT:	4.5 lbs. (2.04 Kg)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDIUM PER MIL-C-5441
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE
CONNECTOR:	TNC FEMALE (SMA, OR N TYPE IS OPTIONAL)

ENVIRONMENTAL:

TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE:	70,000 ft.
VIBRATION:	> 30 G's
LEAKAGE:	HERMETICALLY SEALED

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

QUANTITY REQD	DESCRIPTION	PART NO	ITEM NO
4	MOUNTING SCREWS	MS24693C273	5
1	INTERNAL ANTENNA / CABLE	3G15A-XS-1 / RG316-2134- 5.5"	4
1	CHOKE RING ADAPTER	12G1215P001-B4	3
1	CHOKE RING / PLUGS	12G1215P001-B3 / 85985K12	2
1	RADOME	12G1215-R2-1	1

CHOKE SIZE:	ANT. SIZE:	FREQ. BAND:	LNA:
12: 12 in Dia.	1: 2" SQ.	1215: L1/L2	A: WITH LNA
	1.9: 1.9" SQ.	15: L1 ONLY	AL: WITH LNA/LIMITER
	2: 2" DIA.		P: WITHOUT LNA
	3: 3.5" DIA.		
	4: MINI ARINC		

P/N: 123G1215A-XT-1

- MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLES LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA/P-PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG. NO MAG.	M: MCMX/MM: MCMX	-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
R: RIGHT ANGLE CON.	T: TB: TNC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 ± .010 .005 ± .010

TOLERANCE 5M PER ANSI Y14.5

REWORK ALL SURFACES BEFORE FINAL INSPECTION TO 100% PER MIL-STD-883C METHOD 2000

WARRANTY SURFACES

DO NOT SCALE DRAWING

ANTCOMCORP TORRANCE CALIFORNIA

OUTLINE DRAWING
ACTIVE L1 CHOKE RING
GPS ANTENNA

APPROVED: S. HUYNH 02-08-13

SCALE: 1/1

123G15A-XT-1

SHEET 1 OF 1