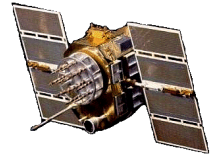




Active L1/L2 GPS Choke Ring Antennas, P/N: 123GM1215A-XT-1-F

12" Diameter x 4.2" High, 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, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

SPECIFICATIONS

ZONE	REV	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	50 ohms		
GAIN (dBic) & AR (dB)	GAIN	AR	GAIN	AR
@ 90° (Zenith):	+7.7	0.2	+4.7	1.0
@ 10° Elevation:	-5.3	3.0	-9.9	1.0
@ 20° Elevation:	-2.7	3.0	-6.5	7.0
@ 30° Elevation:	-0.4	3.0	-3.6	5.0
@ 45° Elevation:	+2.9	2.0	0.0	4.0
@ 70° Elevation:	+6.8	1.0	+3.5	1.5
BEAM WIDTH (3dB)	67.4 Deg.			63.5 Deg.
LIGHTNING PROTECTION:	DC GROUNDING			
LNA GAIN:	20 dB (...A2-...), 33 dB (...A-...), 40 dB (...A4-...)			
LNA NOISE FIGURE:	1.9 dB			
LNA P1dB Out:	+13 dBm			
LNA DC POWER:	(2.5-24) V / < 35 mA			

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 IRIDITE 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 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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV
4	MOUNTING SCREWS	MS24683C273		5
1	INTERNAL ANTENNA / CABLE	3G1215A-XS-1 / SMA-MR-RG316-3.2in-TNC-FB		4
1	CHOKER RING ADAPTER	12G1215P001-B4		3
1	CHOKER RING / PLUGS	12G1215P001-B3 / 85985K12		2
1	RADOME	12G1215-R-5		1
-2				

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FUNCTIONS: DIMENSIONS: ANGLES: ± 1/64 DIA. DIMS ± 1°

TOLERANCE SURF PER AMS 114.0

REMOVE ALL BURRS

BREAK EXTERNAL EDGES AND TO .015

PLUGS TO BE USED PER MIL-STD-883C

DATE ON A CASH & 2/2008

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

OUTLINE DRAWING
ACTIVE L1/L2 CHOKER RING
GPS ANTENNA

DATE: 02-08-13

SCALE: 1/1

SHEET: 1 OF 1

CHOKE SIZE	ANT. SIZE	FREQ. BAND	LNA	CABLE'S LENGTH	CONNECTOR	COLOR
12: 12 in Dia.	1: 2" SQ. 1.9: 1.9" SQ. 2: 2.5" DIA. 3: 3.5" DIA. 4: MINI ARINC	1215: L1/L2 15: L1 ONLY	A: WITH LNA A2: WITH 20 dB LNA A4: WITH 40 dB LNA P: WITHOUT LNA	X: NO CABLE N: NO MAG R: CABLE LENGTH (IN) R: RIGHT ANGLE CON.	S: SMA P: PINS M: MCK: N: NO MAG N: NB: N: N-Bulkhead T: TB: TNC, TNC-Bulkhead	-1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34531 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

NMO Connector Option is Now Available for Some Antennas