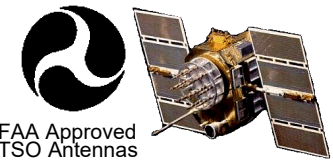




Active L1/L2 GPS/XM Antenna, P/N: 5G121523RL-AA-XTT-1 (5.03"x2.08"x0.69"), Flat or Pipe Mount Configurations



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

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5.026 [127.66]
2.200 [55.88]
4x.800 [20.32]
4x2.119 [53.82]
4x.721 [18.31]
R6.000 [R152.40]
.572 [14.53]
.784 [19.91]
.148 [3.77]
GPS
XM
O-RING (2-038)

GPS: TNC Female (Blue)
(OPTION: SMA, MCX, MMCX)
(+2.5 to +30) Volts DC

XM: TNC Female (Green)
(OPTION: SMA, MCX, MMCX)
(+2.5 to +30) Volts DC

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1523: L1 GPS & XM	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	0915: GSM & L1 GPS		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	1216: L1/L2 GPS & IRIDIUM	A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	1223: L1/L2 GPS & XM				
53: (HELIX ROD)	0912: GSM & L1/L2 GPS				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

SPECIFICATIONS

ELECTRICAL:

	XM	L1/L2 GPS			
FREQUENCY:	(2338.75 +/- 10) MHz	L1: (1575.42 ±13)	L2: (1227.60 ±13) MHz		
RADIATION PATTERN:	HEMISPHERICAL	HEMISPHERICAL			
POLARIZATION:	LHCP	RHCP			
VSWR:	< 1.5:1	< 1.5:1			
GAIN (dB):	4 ft G.P.	F.S.	4 ft G.P.	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+4.6	+2.9	+1.8	+5.3
@ 10° Elevation:	-1.0	-2.5	-1.8	-4.2	-2.3
@ 20° Elevation:	+1.5	-1.1	+0.7	-2.9	+0.4
@ 30° Elevation:	+2.4	+0.5	+1.7	-2.0	+2.3
@ 60° to 90° Elevation:	>+3.3	>3.6	>2.1	>0.9	>3.2
BEAM WIDTH (3dB):	129°	103°	146°	108°	74°
AXIAL RATIO @ Zenith:	2 dB	2 dB			
POWER HANDLING:	30 W	1 Watt			
LIGHTNING PROTECTION:	DC GROUNDING	DC GROUNDING			
FILTER (REJ. @1616 MHz):		> 60 dB			
LNA GAIN:	(33 +/-2) dB	(33.0 +/-1) dB			
LNA P 1dB Out:	+16dBm	+16 dBm			
LNA NOISE FIGURE:	2.2 dB	2.8 dB (Filter loss is included)			
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / < 38 mA				

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]

WEIGHT: 8.2 oz. (232 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

CONNECTOR: GPS: TNC FEMALE (Blue); XM: TNC FEMALE (GREEN)

MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

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	MATERIAL	FINISH	TRUP NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: TOLERANCES ARE IN INCHES
± 1/64 ANGLES
± .005
± .010
± .015

TOLERANCE SH PER ANG Y14.5

REMOVE ALL BURRS
BREAK EXTERIOR EDGES .005 TO .015
FILLET R .005 TO R .020
DREW INCREASED DIA'S - .001 TO .002
DIA'S ON A COMMON & .0005
MACHINED SURFACES ✓

DO NOT SCALE DRAWING

DATE NO. S. HUYNH
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UPDATE DRAWN P. TRAN
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CAD FILE NO. July-18-12

ANTCOM CORP. TORRANCE CALIFORNIA
TSO APPROVED
ACTIVE L1/L2 GPS/XM
ANTENNA

SHEET 1 OF 1

P/N: 5G121523RL-AA-XTT-X

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

NMO Connector Option is Now Available for Some Antennas