



FAA Approved Facility

High Performance XM Radio Helix Antenna

P/N: XM-Alaska-XTB-1

Other Configurations and Connectors Are Available

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(2338.76 +/- 10) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	LHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
GAIN (ABOVE HORIZONTAL, dBic):	
@ 15° Elevation:	+0.2
@ 20° Elevation:	+0.5
@ 30° Elevation:	+1.2
@ 45° Elevation:	+0.3
AXIAL RATIO @ Zenith:	1.0 dB
POWER HANDLING:	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)
LNA GAIN:	33 +/- 2 dB
LNA NOISE FIGURE:	2.2 dB
LNA DC POWER:	(+2.5 to +30) Volts DC, < 38 mA FROM Rx RF CON.

MECHANICAL:

SIZE: DIAMETER: 3.50 in.[88.9 mm]
HEIGHT: 6.55 in.[166.37 mm]

WEIGHT: 4.00 oz. (113 g)

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, AND FIRE RETARDANT

CONNECTOR: TNC BULKHEAD
(OPTION: TNC, SMA, 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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

CONFIGURATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARING (FLAT)				
53: (HELIX ROD)				
5B: (HELIX BLADE)				
3D: (HELIX HANDHELD)				

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

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QUANTITY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	THRU NO
1	ADHESIVE GASKET	12345G-3M-2G	-	-	-	1
-2	-1					

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
DIMENSIONS ARE IN INCHES	TORRANCE, CALIFORNIA
FRACTIONS DECIMALS ANGLES	
± 1/64 ± .005 ± 1°	
TOLERANCE SURF PER ANSI Y14.5	
REMOVE ALL BURRS	
BREAK EDGES, EDGES .005 TO .015	
FILLET R .005 TO R .020	
SPRAYS: MIL-C-13120 #2-28879	
OR A COMPANY # 20-8805	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

ORIGINAL DRAWN	S. HUYNH	DATE	01-05-29
ORIGINAL DESIGNED	S. HUYNH <td>DATE <td>01-05-29</td> </td>	DATE <td>01-05-29</td>	01-05-29
UPDATED	S. HUYNH <td>DATE <td>Apr-24-13</td> </td>	DATE <td>Apr-24-13</td>	Apr-24-13
UPDATE DRAWN	P. TRAN <td>DATE <td>Apr-24-13</td> </td>	DATE <td>Apr-24-13</td>	Apr-24-13
APPROVED	S. HUYNH <td>DATE <td>Apr-24-13</td> </td>	DATE <td>Apr-24-13</td>	Apr-24-13

ANTCOM CORP. ACTIVE XM RADIO ANTENNA

3CVE1 XM-Alaska-XTB-1

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas