



FAA Approved Facility

# XM or SIRIUS Antennas, P/N: 2X23X-XX-X

## 2.6" Diameter, Bulkhead/Back Mount Configurations

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



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**Specifications:**  
 Spherical R6.000 [R152.40]  
 .690 [17.53] (for Active), 0.58 [14.73] (for Passive)  
 R.38 [R9.53] (BLEND)  
 0.57" [14.53] (TNC), 0.72" [18.29] (N, N-Bulkhead), 0.46" [11.68] (SMA), 0.83" [21.00] (TNC-Bulkhead)  
 TNC BULKHEAD CONNECTOR (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)  
 4x .815 [20.70]  
 4x .815 [20.70]  
 .148 [3.77]  
 Optional Mounting: 4X 6-32 UNC-2B, 0.160" Deep, & ADHESIVE GASKET  
 .255 [6.48]

**SPECIFICATIONS**

**ELECTRICAL:**

FREQUENCY:	(2338.75 +/- 10) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	LHCP
VSWR:	< 1.5:1
IMPEDANCE:	50 ohms
GAIN (dBic):	4 ft G.P.
@ 90° (Zenith):	+4.6
@ 10° Elevation:	-1.1
@ 20° Elevation:	+2.2
@ 30° Elevation:	+2.2
@ 45° Elevation:	+3.4
@ 70° Elevation:	+4.4
AXIAL RATIO @ Zenith:	2.0 dB
POWER HANDLING:	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)
FILTER (REJ. @1616 MHz):	20 dB (F0 Option), > 57 dB (F1)
LNA GAIN:	33 +/- 2 dB
LNA NOISE FIGURE:	2.2 dB
LNA DC POWER:	(+2.5 to +30) Volts DC, 238 mA FROM Rx RF CON.

**MECHANICAL:**

SIZE: DIAMETER: 2.60 in. [ 66.04 mm]  
 HEIGHT: 0.690 in. [17.53 mm] (Active), 0.58" [14.73] (Passive)

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, D0-228, MIL-C-3641  
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	LEN	HD
1	ADHESIVE GASKET	12345G-3M-2G					
1	WASHER, LOCK	AN936B816					
1	HEX NUT, MOUNTING	1/2-20 HEX					
-2							

**ANTCOM CORP.** TORRANCE, CALIFORNIA

**OUTLINE DRAWING**  
ACTIVE or PASSIVE  
XM RADIO ANTENNA

D | 3CVE1 | 2M23X-XX-X | R |

SCALE 1/1" | SHEET 1 OF 1

**3. ADHESIVE GASKET IS SUPPLIED BY ANTCOM CORPORATION**  
**2. MOUNTING HEX NUT AND LOCK WASHER ARE SUPPLIED BY ANTCOM CORPORATION**  
**1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]**

**NOTES: UNLESS OTHERWISE SPECIFIED:**

SIZE:	FREQ. BAND:	LNA:
1: 2" SQ.		A: WITH LNA
1.9: 1.9" SQ.		P: WITHOUT LNA
2: 2.6" DIA.		
3: 3.5" DIA.		
4: MINI ARINC		

**P/N: 2M23A-XT-1**

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG; N: NO MAG	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
F: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 ± .01 .005 ± .01

TOLERANCE .5M PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .205 TO .215

FLATTEN .025 TO .030

SCREW THREADS PER MIL-E-8839

DATE ON A COMMON 25 DEGREE MACHINED SURFACES

DO NOT SCALE DRAWING

CHECKED: M. BOAS 01-05-29

APPROVED: S. HUYTH 01-05-29

DATE FILE NO

NMO Connector Option is Now Available for Some Antennas