



FAA Approved Facility


GPS/XM Antennas, P/N: 2G1523RL-AA-XGSS-1

2.6" Diameter, Bulkhead/Back Mount Configurations



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

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ACTIVE RFTV GLOBALSTAR ANTENNA
P/N: 2G1523RL-AA-XGSS-1
Lot: 4955 INT: 1384 Rev: A
Antcom Corporation
Torrance, CA, USA

SPECIFICATIONS

ELECTRICAL:

	L1 GPS/L-Band (1575.42 ±12) MHz, (2338.75 +/- 10) MHz	XM, OR SIRIUS RADIO (2338.75 +/- 10) MHz
FREQUENCY:	(1575.42 ±12) MHz, (2338.75 +/- 10) MHz	(2338.75 +/- 10) MHz
RADIATION PATTERN:	(1555.00 ±17) MHz	HEMISPHERICAL
POLARIZATION:	RHCP	LHCP (XM), RHCP (SIRIUS)
VSWR:	< 1.5:1	< 1.5:1
GAIN (dB):	F.S 4 ft G.P.	F.S 4 ft G.P.
@ 90° (Zenith):	+ 4.6	+ 2.9
@ 10° Elevation (Ave):	- 2.5	- 1.8
@ 20° Elevation (Ave):	- 1.1	+ 0.7
@ 30° Elevation (Ave):	+ 0.5	+ 1.7
@ 45° Elevation (Ave):	> 3.6	> 2.1
@ 70° Elevation (Ave):	> 3.6	> 2.1
AXIAL RATIO @ Zenith:	2 dB	2 dB
POWER HANDLING:	1 Watt	1 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)	
FILTER (REJ. @1616 MHz):		57 dB
REJECTION @ (-50/+50) MHz:	-45 dB / -70 dB	
@ (-100/+100) MHz:	< -65 dB	
LNA GAIN:	34 dB (P1dBout = +13 dBm)	(35 +/- 1) dB
LNA NOISE FIGURE:	2.4 dB	2.8 dB
LNA VOLTAGE:	(+2.5 to +30) Volts DC FROM Rx RF CON.	(+2.5 to +30) Volts DC FROM Rx RF CON.
LNA DRAWING CURRENT:	< 30 mA	< 38 mA

MECHANICAL:

SIZE: DIAMETER: 2.70 in. [68.81 mm]
HEIGHT: 0.69 in. [17.53 mm]

WEIGHT: <4.00 oz. (113 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

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

CONNECTOR: GPS (Blue): SMA FEMALE, XM (Green): SMA FEMALE
(OPTIONAL: SMA-M, TNC, MCX, MMCX, OR CABLES)

ENVIRONMENTAL:

TEMPERATURE: -67 °F to +185 °F [-55 °C to +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
HUMIDITY: (90-95)% @ 40C

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

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE:	FREQ. BAND	GPS/XM POLARIZATION:	GPS/XM LNA:
1: 2" SQ	1523: GPS/XM	L: LHCP	A: WITH LNA
1.9: 1.9" SQ	1625: TX/RX	R: RHCP	
2: 2.7" DIA	25: RX ONLY		P: WITHOUT LNA
3: 3.5" DIA	16: TX ONLY		
4: MINI ARINC			

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	TEXT NO
1	O-Ring	2-037-N756-75 (9557K127)			5
1	Magnetic Mount Option	MTR-5B			2
					1

2G1623RL-AA-XGSS-1

Mounting Option:	GPS/XM CONNECTOR:	COLOR:
XG: Glass Mount	S: SMA, P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
M: MCX, MM: MMCX	M: MCX, MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
XGM: Glass/Mag Mount	N, NB: N, NB: Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	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 ± 1°

UNLESS OTHERWISE SPECIFIED
REMOVE ALL FILERS
BREAK EXTERNAL EDGES .005 TO .015
FILERS IF .005 TO .015
SOBOW THREADS PER MIL-C-27079
DIA'S ON A CONFORM 2.70 DIA
MACHINED SURFACES 125

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

2.7" DIA. GLASS MOUNT
ACTIVE GPS/XM ANTENNA

APPROVED: S. HUYNH 01-05-29
Dwg No: 3CVE1
Scale: 1/1
Sheet: 1 OF 1

NMO Connector Option is Now Available for Some Antennas