



FAA Approved Facility

# Tx/Rx Globalstar/GPS Antennas, P/N: 2G151625RLL-AA-XSSS-XF1:

## 2.7" Diameter, Bulkhead/Back Mount Configuration

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



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SPECIFICATIONS		REVISIONS		
ZONE	REV	DESCRIPTION	DATE	APPROVED
<b>ELECTRICAL:</b>				
FREQUENCY:	TX (1610.0 - 1626.5) MHz	RX (2483.5 - 2500.0) MHz	L1 GPS (1575.42 ±12) MHz	
RADIATION PATTERN:	HEMISPHERICAL			
POLARIZATION:	LHCP	LHCP	RHCP	
VSWR(50 ohms):	< 2.0:1			
GAIN (dB):	Free Space	Free Space	Free Space	
@ 90° (Zenith):	+3.7	+3.3	+2.3	
@ 10° Elevation (Ave):	-3.5	-3.2	-5.1	
@ 20° Elevation (Ave):	-1.8	-1.5	-2.7	
@ 30° Elevation (Ave):	-0.1	-0.3	-1.7	
@ 45° Elevation (Ave):	+1.9	+1.1	+0.0	
@ 70° Elevation (Ave):	+3.6	+2.9	+1.6	
AXIAL RATIO @ Zenith:	< 2 dB	< 2 dB	< 2 dB	
LNA GAIN:	N/A	(34 +/- 1) dB	(33 +/- 1) dB	
LNA NOISE FIGURE @ 85C:	N/A	< 2.8 dB	< 3 dB	
LNA INPUT P1dB (dBm):	N/A	> -23	> -23	
ACTIVE ISOLATION @ TX:	N/A	TX-> RX > 30 dB	TX-> GPS > 35dB	
FILTER REJ. (824-894)MHz:		> 55 dB		
(1610-1626.5) MHz:		> 43 dB		
(3220-3253) MHz:		> 20 dB		
(4830-4879.5) MHz:		> 20 dB		
LNA VOLTAGE:	N/A	(+2.5 to +30) Volts DC		
LNA DRAWING CURRENT:	N/A	< 38 mA	< 30 mA	
POWER HANDLING:	< 5 W	1 Watt	1 Watt	

**MECHANICAL:**

SIZE: DIAMETER: 2.70 in. [ 68.81 mm]  
HEIGHT: 0.793in. [20.14 mm]

WEIGHT: < 4.00 oz. (113 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDIUM 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: Tx (Red): SMA FEMALE, Rx (Blue): SMA FEMALE  
(OPTIONAL: PINS, 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

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	TRM
5					
1	O-Ring	2-037-N756-75 (9557K127)			3
1	Magnetic Mount Option	MTR-5B			2
1					1

CONFIGURATION:	FREQ. BAND	GPS/RX/LNA OPTION:	CABLE LENGTH	GPS/TX/RX CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1625 Tx/Rx	A. WITH LNA	X: NO CABLE	S: SMA/P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	25: Rx ONLY	P. WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX/MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.7" DIA. (FLAT)	16: Tx ONLY		#: CABLE LENGTH (IN)	N: N: NIS: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	151625L1GPS/Tx/Rx		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	12151625L1L2GPS/Tx/Rx				-5: DESERT TAN
5B: (HELIX ROD)					
5D: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>FRACTIONS: 1/64, 1/32, 1/16, 3/32, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1</p> <p>TOLERANCE: .015 PER AND THRU .010 REMOVE ALL BURRS BREAK EXTENSION DIMS TO .015 FILED TO .005 TO .010 SURF. FINISH: PER SAE J413 UNLESS OTHERWISE SPECIFIED MACHINED SURFACES: 32</p> <p>DO NOT SCALE DRAWING</p>	<p><b>ANTCOM CORP.</b> TORRANCE CALIFORNIA</p> <p>2.7" DIAMETER, FIXED MOUNT GLOBALSTAR/GPS ANTENNA</p> <p>DATE: 01-05-29</p> <p>SCALE: 1/1</p> <p>SHEET 1 OF 1</p>
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NMO Connector is Now Available for Some Antennas