



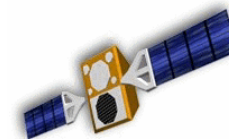
ISO 9001:2008/FAA Approved Facility

"Not Yet Approved" Tx/Rx Globalstar/GPS Antennas

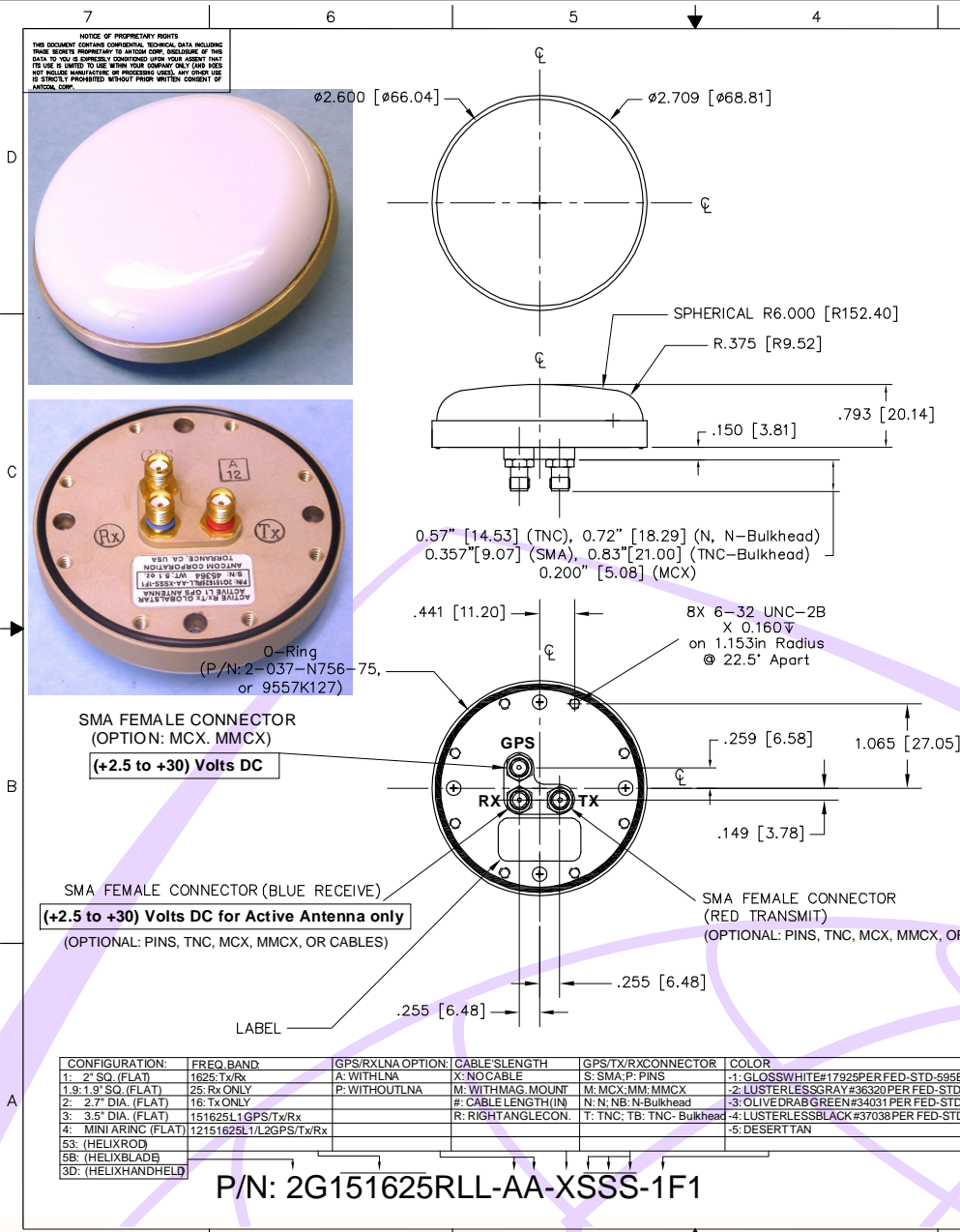
P/N: 2G151625RLL-AA-XSSS-XF1

2.7" Diameter, Bulkhead/Back Mount Configuration

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



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>



SPECIFICATIONS			
ELECTRICAL:	REVISIONS		
	ZONE	REV	DESCRIPTION
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	N/A	> 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 FROM Rx RF CON.	
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: 0.793 in. [20.14 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: 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, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1	O-Ring	2-037-N756-75 (9557K127)			3
1	Magnetic Mount Option	MTR-5B			2
					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; NB: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	151625L1 GPS/Tx/Rx		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	12151625L1/L2 GPS/Tx/Rx				5: DESERT TAN
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: 2G151625RLL-AA-XSSS-1F1

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

TOLERANCE SURF PER ANS 114.3

REMOVE ALL BURRS BREAK EDGES TO .005 TO .015 FILE TO .000 TO R .000 SORT BY WEIGHT FOR 15-3-8879 DATA ON A COMMON 2.005

FINISHED SURFACES

DO NOT SCALE DRAWING

DESIGNED BY: S. HJYTH

ENGINEER: 01-05-29

APPROVED: S. HJYTH

DATE: 01-05-29

SCALE: 1/1

ANTCOM CORP. TORRANCE, CALIFORNIA

2.7" DIAMETER, FIXED MOUNT, GLOBALSTAR/GPS ANTENNA

3CVE1 2G151625RLL-AA-XSSS-1F1

SHEET 1 OF 1