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

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

2.7" Diameter, 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

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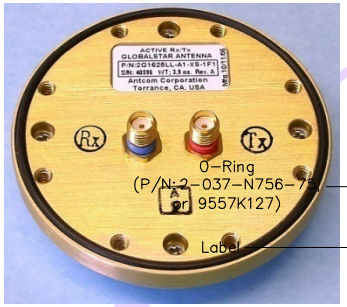

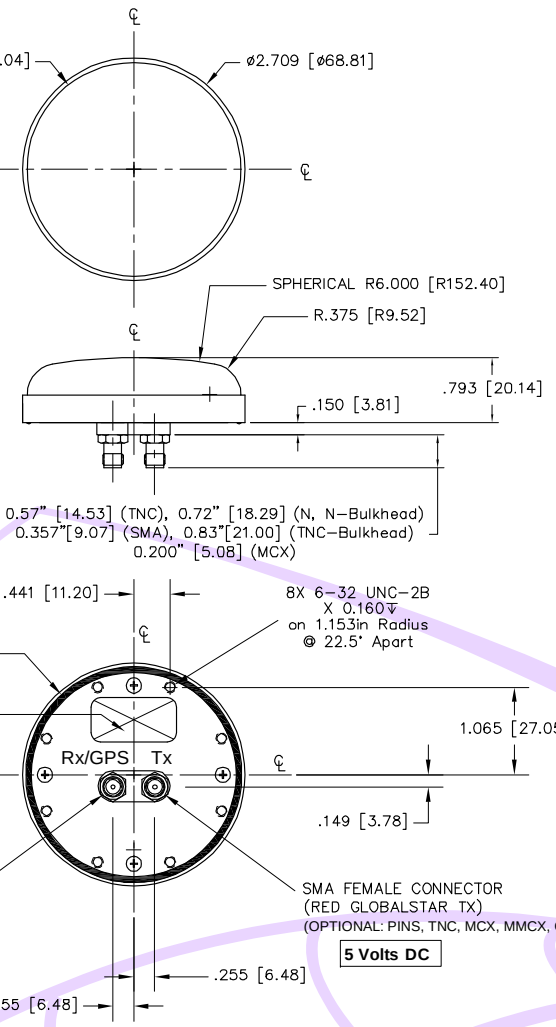

SPECIFICATIONS

ELECTRICAL:

	TX	RX	L1 GPS
FREQUENCY:	(1610.0 - 1626.5) MHz	(2483.5 - 2500.0) MHz	(1575.42 ±12) MHz
RADIATION PATTERN:		HEMISPHERICAL	
POLARIZATION:	LHCP	LHCP	RHCP
VSWR (50 ohms):	< 2.0:1	< 2.0:1	< 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
AMP. GAIN (With CABLE):	(3+/-0.7) dB	> 20 dB	> 20 dB
AMP. NOISE FIGURE @ 85C:	N/A	< 2.8 dB	< 3 dB
AMP. INPUT P1dB (dBm):	+26	> -23	> -20
ACTIVE ISOLATION @ TX:	N/A	TX-> RX > 30 dB	TX-> GPS > 40dB
FILTER REJ. : (824-894) MHz (1610-1626.5) MHz (3220-3253) MHz (4830-4879.5) MHz	N/A	> 55 dB > 43 dB > 20 dB > 20 dB	
AMP. VOLTAGE:	+5 Volts DC FROM TX RF CON.		
AMP. DRAWING CURRENT:	<450 mA	< 38 mA	< 30 mA
POWER HANDLING:		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 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/GPS (Green): 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

CONFIGURATION:	FREQ.BAND:	(GPS/RX)/TxAmp.OPTION:	CABLE'SLENGTH	(GPS/RX)/TXCONNECTOR	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)	1516251.1 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/L2GPS/Tx/Rx				-5: DESERT TAN
53: (HELIXROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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

QUANTITY REQD		DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
1		Rx Cable Option 2	TNC-MR-20ft-SMA-M			5
1		Tx Cable Option 2	TNC-M-20ft-SMA-M			4
1		Rx Cable Option 1	TNC-MR-6ft-SMA-M			3
1		Tx Cable Option 1	TNC-M-6ft-SMA-M			4
1		Magnetic Mount Option	MTR-5B			2
1		O-Ring	2-037-N756-75 (9557K127)			1

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°. TOLERANCE SYM PER ANSI Y14.5. REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .000 TO R .030. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON Ø .005. MACHINED SURFACES 125. DO NOT SCALE DRAWING

DRAWN | CHECKED | ENGINEER | APPROVED S. HUYNH 01-05-29 | CAD FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA

2.7" DIAMETER, FIXED MOUNT ACTIVE GLOBALSTAR/GPS ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 2G151625RLL-AA-XSS-1F1 | REV

SCALE 1/1 | SHEET 1 OF 1

ZONE	REV	DESCRIPTION	DATE	APPROVED

REVISIONS