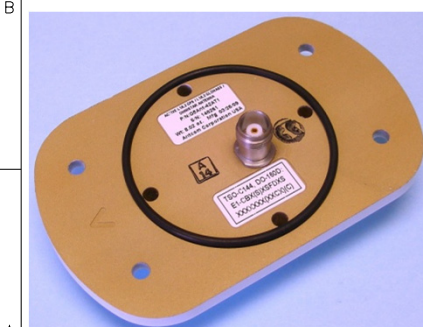
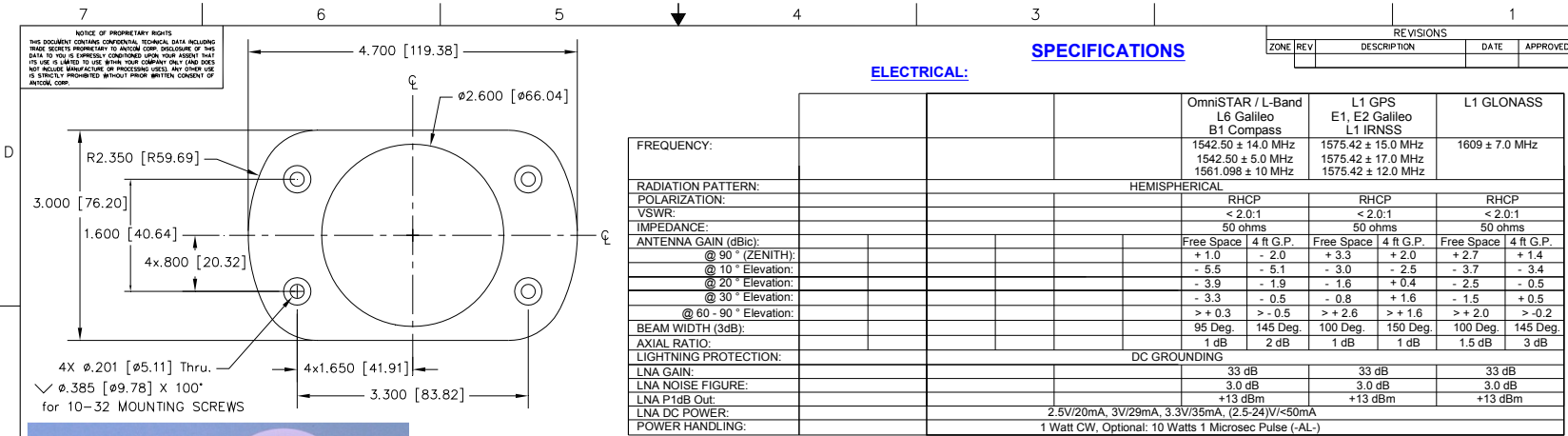




Antcom's **G3 Antenna**, Active **L1 Glonass + L1 GPS + OmniStar** Antenna, P/N: G3Ant-42AT1 **Avionics Arinc 743 Configuration** **(with Filters, better RTK Performance, Optimized for L1 Glonass & L1 GPS & OmniStar)**

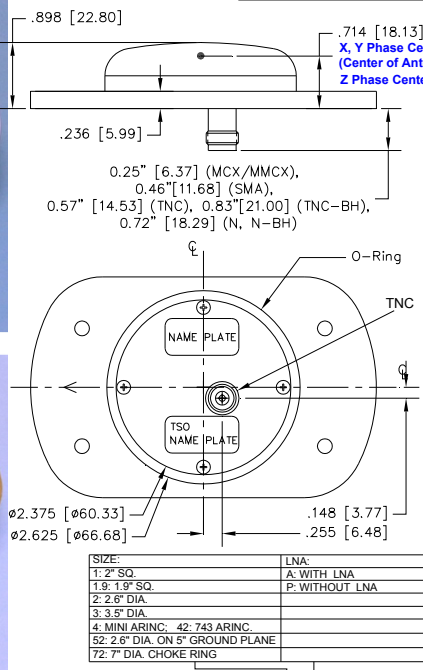


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		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:		SPECIFICATIONS			
FREQUENCY:		OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS	
		1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609 ± 7.0 MHz	
RADIATION PATTERN:		HEMISPHERICAL			
POLARIZATION:		RHCP	RHCP	RHCP	
VSWR:		< 2.0:1	< 2.0:1	< 2.0:1	
IMPEDANCE:		50 ohms	50 ohms	50 ohms	
ANTENNA GAIN (dBi):		Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90° (ZENITH):		+ 1.0	- 2.0	+ 3.3	+ 2.0
@ 10° Elevation:		- 5.5	- 5.1	- 3.0	- 2.5
@ 20° Elevation:		- 3.9	- 1.9	- 1.6	+ 0.4
@ 30° Elevation:		- 3.3	- 0.5	- 0.8	+ 1.6
@ 60 - 90° Elevation:		> + 0.3	> - 0.5	> + 2.6	> + 1.6
BEAM WIDTH (3dB):		95 Deg.	145 Deg.	100 Deg.	150 Deg.
AXIAL RATIO:		1 dB	2 dB	1 dB	1 dB
LIGHTNING PROTECTION:		DC GROUNDING			
LNA GAIN:		33 dB	33 dB	33 dB	
LNA NOISE FIGURE:		3.0 dB	3.0 dB	3.0 dB	
LNA P1dB Out:		+13 dBm	+13 dBm	+13 dBm	
LNA DC POWER:		2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA			
POWER HANDLING:		1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)			



MECHANICAL:

SIZE: WIDTH: 3.00 in. [76.20 mm], LENGTH 4.700 in. [119.38 mm], HEIGHT: 0.898 in. [22.80 mm]

WEIGHT: 8.02 oz. (227 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F CLASS 1A

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

CONNECTOR: TNC TYPE FEMALE
(OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

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-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-1L12-100

P/N: G3Ant-42AT1

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

SIZE:	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: 42: 743 ARINC.	
5: 2.6" DIA. ON 5" GROUND PLANE	
7: 7" DIA. CHOKER RING	

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO.
4	Mounting Screw: 10-32, 1"	MS24693C276		5
1	O-Ring or Gasket	2-142/N756-75		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTIONS: DECIMALS	TOLERANCES: ANGLES	743 ARINC, ACTIVE L1 Glonass/L1 GPS/OmniStar G3 ANTENNA	
± 1/64 XXX .015 XXXX .005 ± 1°	± .010 .005 ± 1°		
TOLERANCE .5M PER ANSI Y14.5	REMOVE ALL BURRS	D 3CVE1 G3Ant-42AT1	
BREAK EXTERNAL EDGES .005 TO .010	FILE TO .005 TO .010		
SCREW THREADS PER MIL-S-8879	DRAS ON A CONICAL & 9° ANGLE	SCALE 1/1 SHEET 1 OF 1	
MACHINED SURFACES .125			