



FAA Approved Facility

Active L1L2 GPS / Thuraya / Inmarsat / Iridium Antenna

P/N: 5GL1L2RxTINIR-4A-XT4-2-AFRO (for Active Rx Only Applications)

(5.341"x2.214"x0.845"), Flat, Top Mount, Bottom Connector Configuration

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



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ELECTRICAL:		SPECIFICATIONS				
		REVISIONS				
		ZONE	REV	DESCRIPTION	DATE	APPROVED
		A		NEW DESIGN	11/29/16	S.H

	Rx-Thuraya (LHCP)	Tx-Thuraya (LHCP)	L1 GPS	L2 GPS	Iridium
Rx-Thuraya (RHCP)					
Rx Inmarsat					
OmniStar, L6 Galileo					
B1 Compass (RHCP)					
FREQUENCY:	(1542.5 ± 17.5) MHz	(1642.5 ± 17.5) MHz	(1575.42 ± 12) MHz	(1227.60 ± 12) MHz	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	2.0:1				
IMPEDANCE:	50 ohms				
ANTENNA GAIN (dBic):	On G.P.	On G.P.	On G.P.	On G.P.	On G.P.
@ 90 ° (ZENITH):	+ 1.6	+ 0.5	+ 3.8	+ 2.7	+3.8
@ 10 ° Elevation:	- 2.4	- 3.3	- 4.3	- 6.3	- 4.3
@ 20 ° Elevation:	+ 0.7	- 0.6	- 2.2	- 4.2	- 2.2
@ 30 ° Elevation:	+ 2.3	- 0.1	- 0.7	- 2.4	- 0.7
@ 60 - 90 ° Elevation:	> + 2.1	> - 1.5	> 2.5	> 1.3	> 2.5
BEAM WIDTH (3dB):	140 Deg.	130 Deg.	120 Deg.	90 Deg.	120 Deg.
AXIAL RATIO:	3 dB	3 dB	2 dB	3 dB	2 dB
LIGHTNING PROTECTION:	DC GROUNDING				
LNA GAIN:	33 dB Gain				
LNA NOISE FIGURE:	3.0 dB				
LNA P1dB Out:	+13 dBm				
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA				
POWER HANDLING:	100 Watts CW (WITHOUT LNA) , 1 Watt CW (WITH LNA)				

MECHANICAL:

SIZE: WIDTH: 2.214 in. [56.24 mm], LENGTH: 5.341 in [135.66 mm]
HEIGHT: 0.845 in. [21.46 mm]

WEIGHT: 11.7 oz. (332 g)

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

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

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

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000 ft.
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLY SEALED

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	REV
1	O-RING	2-038-N756-75			2
4	MOUNTING SCREW: (10-32, 1.25")	MS24693C278			1

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: ± 1/64 ± .005 ± 1°

TOLERANCE SHIP PER AMS 114.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .010

FILLET R .015 TO R .030

SCREW THREADS PER MIL-S-8879

DAYS ON A COMMON S. 25.000

MACHINED SURFACES 12.5

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

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P/N: 5GL1L2RxTINIR-4A-XT4-2-AFRO

SCALE 1/1

SHEET 1 OF 1