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ELECTRICAL:

	Rx-Inmarsat	Rx-Thuraya	L1 GPS	L2 GPS	Iridium
FREQUENCY:	(1525 - 1560) MHz	(1525 - 1560) MHz	(1575.42 ±15) MHz	(1227.60 ±15) MHz	(1616.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP	LHCP	RHCP	RHCP	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	+ 1.6	+ 3.8	+ 2.7	+3.8
@ 10 ° Elevation:	- 2.4	- 2.4	- 4.3	- 6.3	- 4.3
@ 20 ° Elevation:	+ 0.7	+ 0.7	- 2.2	- 4.2	- 2.2
@ 30 ° Elevation:	+ 2.3	+ 2.3	- 0.7	- 2.4	- 0.7
@ 60 - 90 ° Elevation:	> + 2.1	> + 2.1	> 2.5	> 1.3	> 2.5
BEAM WIDTH (3dB):	140 Deg.	140 Deg.	120 Deg.	90 Deg.	120 Deg.
AXIAL RATIO:	2 dB	2 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, (2.5-24)V/≤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

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
A		NEW DESIGN	11/29/16	S.H
B		BETTER FILTER	12/21/16	S.H

QUANTITY RECORD

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	O-RING	2-038-N756-75	-	-	2
4	MOUNTING SCREW: (10-32, 1.25")	MS24693C278	-	-	1

PARTS LIST

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	O-RING	2-038-N756-75	-	-	2
4	MOUNTING SCREW: (10-32, 1.25")	MS24693C278	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS: ANGLES: 1/8" 300 005 ± 1°

TOLERANCE 5th PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILED TO .005 TO .015

SCREW THREADS PER MIL-C-8879

FINISH ON A COMMON 5.27.000

MACHINED SURFACES 1/16"

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

ACTIVE L1L2 GPS/THURAYA
 INMARSAT/IRIDIUM ANTENNA

DATE: 3C1E1
 DRAWN BY: S. HUYNH
 DATE: Dec-21-16

SCALE: 1/1

SHEET 1 OF 1

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