



FAA Approved Facility

Active **Down-Link** Thuraya + Inmarsat + Iridium + L1L2-GPS Antenna
 P/N: 5BGL1L2RxTINIR-4A-XT4-2-AFRO (for Receiving @ Rx-Bands, Gray)
 P/N: 5BGL1L2RxTINIR-4A-XT4-1-AFRO (for Receiving @ Rx-Bands, White)
 P/N: 5BGRxTINIR-4A-XT3-2-AFRO (for Receiving @ Rx-Bands, Gray, No GPS)
 P/N: 5BGRxTINIR-4A-XT3-1-AFRO (for Receiving @ Rx-Bands, White, No GPS)
 Other Frequencies, Mounting Foot Prints, Connectors, and Colors Options are Available
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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5.026 [127.66]
 2.214 [56.24]
 5.341 [135.66]
 5.133 [130.38]
 1.600 [40.64]
 1.114 [28.29]
 1.114 [28.30]
 .371 [9.43]
 .371 [9.43]
 .846 [21.48]
 4.237 [107.63]

4X ϕ .201 [ϕ 5.11] THRU
 \checkmark ϕ .390 [9.91] X 100"

TNC FEMALE CONNECTOR
 (OPTION: SMA, N, BNC)

GPS 4G

IN IR

P/N: 5BGL1L2RxTINIR-4A-XT4-2-AFRO

CONNECTOR:
 DCG: DCG
 S: SMA, Q: QMA
 N: N, T: TNC

COLOR:
 -1: GLOSS WHITE #17925 PER FED-STD-595B
 -2: LUSTERLESS GRAY #36320 PER FED-STD-595B
 -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 -4: LUSTERLESS BLACK #37038 PER FED-STD-595B
 -5: DESERT TAN #33446 PER FED-STD-595B
 -UJ: TEFLON COATED FOR UNDERWATER APPLICATION

ELECTRICAL:

	Rx-Inmarsat	Rx-Thuraya	L1 GPS	L2 GPS	Iridium
FREQUENCY:	(1525 - 1560) MHz	(1525 - 1560) MHz	(1575.42 \pm 15) MHz	(1227.60 \pm 15) MHz	(1616.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP	LHCP		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	+2.2 / +0.6	+ 3.8	+ 2.7	+3.8
@ 10 ° Elevation:	- 2.4	+0.6 / -0.5	- 4.3	- 6.3	- 4.3
@ 20 ° Elevation:	+ 0.7	+0.9 / -0.3	- 2.2	- 4.2	- 2.2
@ 30 ° Elevation:	+ 2.3	+1.1 / +0	- 0.7	- 2.4	- 0.7
@ 60 - 90 ° Elevation:	> + 2.1	>+1.3 / +0.2	> 2.5	> 1.3	> 2.5
BEAM WIDTH (3dB):	140 Deg.	160 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: 2.20 in. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 5.133 in. [130.38 mm]

WEIGHT: 2.26 lbs. (1.03 kg)

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

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B
 GLOSS WHITE #17925 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
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: TNC FEMALE CONNECTORS
 (OPTIONAL: SMA, N, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67°F TO +185°F [-55°C TO +85°C]
 ALTITUDE: 70,000 ft.
 VIBRATION: 10 G's
 LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

TSO-C129A, TSO-C169A/C144, MIL-C-5541F(Finish), MIL-DTL-14072(Finish), MIL-4-45208A(Inspection), DO-160D(Test), DO-228, MIL-STD-810 (Test), SAE J1455(Envrimental), MIL-S-901D(Shock), MIL-STD-167-1A(Vibration), MIL-HDBK-2164A(Stress), MIL-STD-461E/F(Elec Interfer), MIL-STD-202(Elec Comp.), MIL-HDBK-5400(Elec Eq.), MIL-HDBK-454(Elec Eq.), MIL-PRF-39012(Conn), MIL-STD-129 (Marking), MIL-STD-1285(Marking), MIL-STD-889(Metal), FED-STD-595(Color), MIL-C-85704B(Solvent), MIL-G-81827(Grease)

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
4	SCREW, MOUNTING (10-32, 1.5"L)	93085A837	-	-	1

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS MILLIMETERS
 \pm 1/64 .005 .015 \pm 1'

TOLERANCE SHI PER ANSI Y14.5
 REMOVE ALL BURRS
 BREAK EXTERNAL EDGES .005 TO .015
 FILED S. HUYNH TO R.000
 SREW THREADS PER MIL-S-8879
 DATA ON A COMMON 8.25" DIA
 MACHINED SURFACES \sqrt{R}
 DO NOT SCALE DRAWING

DATE: 03/20/2017
 DRAWN: P. TRAN
 CHECKED: S. HUYNH
 APPROVED: S. HUYNH

ANTCOM CORP. TORRANCE CALIFORNIA
 ACTIVE L1L2 GPS/THURAYA
 INMARSAT/ IRIDIUM ANTENNA

SCALE 1/1
 SHEET 1 OF 1