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SPECIFICATIONS

ELECTRICAL:

	Tx-Inmarsat	Tx-Thuraya	L1 GPS	L2 GPS	Iridium
FREQUENCY:	(1625 - 1660) MHz	(1625 - 1660) MHz	(1575.42 ±15) MHz	(1227.80 ±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 (dBi):	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

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

QUANTITY REQUIRED

DESCRIPTION	QTY	REVISIONS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
FRACTIONS: DECIMALS: ANGLES:		
± 1/64 .005 .010 ± 1°		
TOLERANCE FINI PER ANSI Y14.5		
REMOVE ALL BURRS		
BREAK EXTERNAL EDGES .005 TO .015		
FILES IN HOLES TO .015		
SOAK THREADED PER MIL-C-8879		
DATA ON A COMMON 1:2 SCALE		
MACHINED SURFACES		
DO NOT SCALE DRAWING		

REV	DATE	BY	APP'D	DESCRIPTION
1	Dec-21-16	S. HUYNH		ORIGINAL DRAWN
2	Dec-21-16	S. HUYNH		ORIGINAL DESIGNED
3	Mar-02-17	S. HUYNH		UPDATE
4	Mar-02-17	P. TRAN		UPDATE DRAWN
5	Mar-02-17	S. HUYNH		APPROVED

P/N: 5GL1L2TxTINIR-4A-XT4-2-AFRO

FREQ. BAND (MHz)	LNA:	GSM/GPS/IRIDIUM CON.:	COLOR:
08: CELLULAR (824-894) 09: GSM (876-960)	R: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
15: L1 GPS (1575±12) 12: L1L2 GPS (1575±12) / (1227±12)	R: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
RxTx: Rx/Tx-Thuraya; RxTxIR: Rx-Thuraya & Rx-Iridium; L1-GPS		N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
L1RxTx: L1-GPS & Rx-Thuraya; L1RxIR: L1-GPS & Rx-Iridium		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
L1RxTxIR: L1-GPS & Rx/Tx-Thuraya; L1L2RxTx: L1L2-GPS & Rx/Tx-Thuraya		B: BNC Female	-5: DESERT TAN #33446 PER FED-STD-595B
L1RxTxIR: L1-GPS & Rx/Tx-Iridium; L1L2RxTxIR: L1L2-GPS & Rx/Tx-Iridium			
L1L2RxTxTINIR: L1L2-GPS & Rx-Thuraya & Tx-Inmarsat & Iridium			

ANTCOM CORP. TORRANCE CALIFORNIA	ACTIVE L1L2 GPS/THURAYA	INMARSAT/IRIDIUM ANTENNA	
SCALE 1/1		SHEET 1 OF 1	