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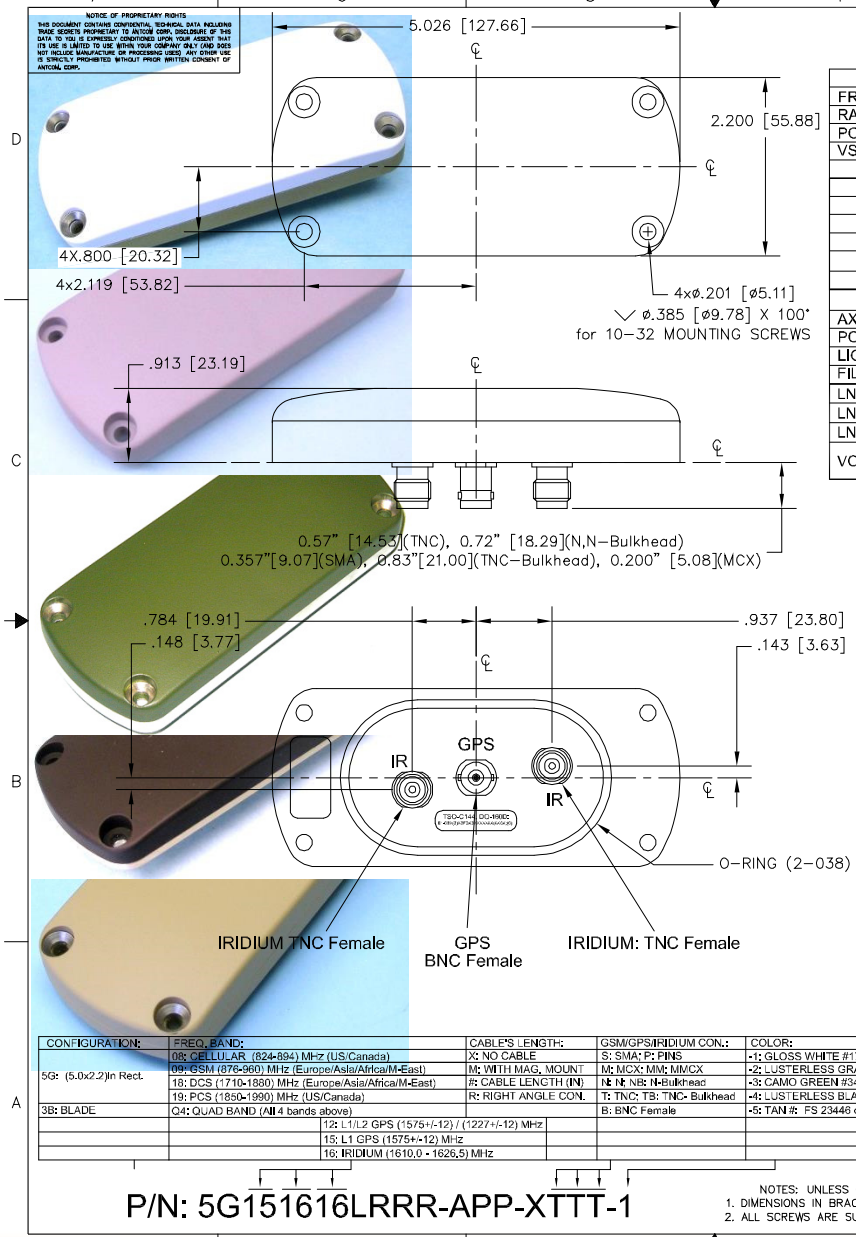

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	HIGH, WEIGHT, CON AND LOCATIONS	07/07/15	S.H.

ELECTRICAL:

	GPS (L1 or L1/L2, See P/N in Bottom Table)				IRIDIUM		GSM
FREQUENCY:	L1: (1575.4 ±13)		L2: (1227.6 ±13) MHz		(1610.0 - 1626.5) MHz		(See Bottom Table)
RADIATION PATTERN:	HEMISPHERICAL				HEMISPHERICAL		Verticle / Horizontal
POLARIZATION:	RHCP				RHCP		OMNI
VSWR:	< 1.5:1				< 1.5:1		< 2:1
GAIN (dB):	F.S.	4 ft G.P	F.S.	4 ft G.P	4 ft G.P.	F.S	
@ 90° (Zenith):	+ 4.6	+ 2.9	+ 1.8	+ 5.3	+4.9	+5.0	
@ 10° Elevation:	- 2.5	- 1.8	- 4.2	- 2.3	-1.0	-2.5	
@ 20° Elevation:	- 1.1	+ 0.7	- 2.9	+ 0.4	+1.5	-0.5	
@ 30° Elevation:	+ 0.5	+ 1.7	- 2.0	+ 2.3	+2.4	+1.0	
@ 60° to 90°Elevation:	> 3.6	> 2.1	> 0.9	> 3.2	>+3.3	>+2.7	
BEAM WIDTH (3dB):	103 °	146 °	108 °	74 °	129 °	98 °-106 °	
AXIAL RATIO @ Zenith:	2 dB				2 dB		
POWER HANDLING:	1 Watt				30 W		
LIGHTNING PROTECTION:	DC GROUNDING				DC GROUNDING		
FILTER:	2 2-POL						
LNA GAIN:	(33.0+/-1.0) dB				N/A		
LNA P 1dB Out:	+16 dBm				N/A		
LNA NOISE FIGURE:	2.9 dB (Filter loss is Included)				N/A		
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA				N/A		

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm]
HEIGHT: 0.913 in. [23.19 mm]

WEIGHT: < 12 oz. (340 g)

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

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

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

MOUNTING: FLAT FIXED MOUNT; O-RING &
4 x 10-32 MOUNTING SCREWS PROVIDED

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, D0-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
	PARTS LIST				
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
					3
1	O-RING	2-038-N756-75	-	-	1

CONFIGURATION:	FREQ. BAND:	CABLE'S LENGTH:	GSM/GPS/IRIDIUM CON.:	COLOR:
5G: (5.0x2.2)In Rect.	08: CELLULAR (824-894) MHz (US/Canada)	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	09: GSM (876-960) MHz (Europe/Asia/Africa/M-East)	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	18: DCS (1710-1880) MHz (Europe/Asia/Africa/M-East)	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
	19: PCS (1850-1990) MHz (US/Canada)	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
3B: BLADE	Q4: QUAD BAND (All 4 bands above)		B: BNC Female	-5: TAN #: FS 23446 or 33446, FED-STD-595
	12: L1/L2 GPS (1575+/-12) / (1227+/-12) MHz			
	15: L1 GPS (1575+/-12) MHz			
	16: IRIDIUM (1610.0 - 1626.5) MHz			

P/N: 5G151616LRRR-APP-XTTT-1

NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS ± 1/64 DECIMALS .XXX ±.010 .XXXX ±.015 ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILLETS R .005 TO R .030 SCREW THREADS PER MIL-S-8879 DIA'S ON A COMMON ℄ ±.005
MACHINED SURFACES 125

ORIGINALLY DRAWN	S. HUYNH	July-12-09
ORIGINALLY DESIGNED	S. HUYNH	July-12-09
UPDATED	S. HUYNH	July-07-15
UPDATE DRAWN	P. TRAN	July-07-15
APPROVED	S. HUYNH	July-07-15

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
FLAT FIXED MOUNT
GSM/GPS/IRIDIUM
ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	5G151616LRRR-APP-XTTT-1	A

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas