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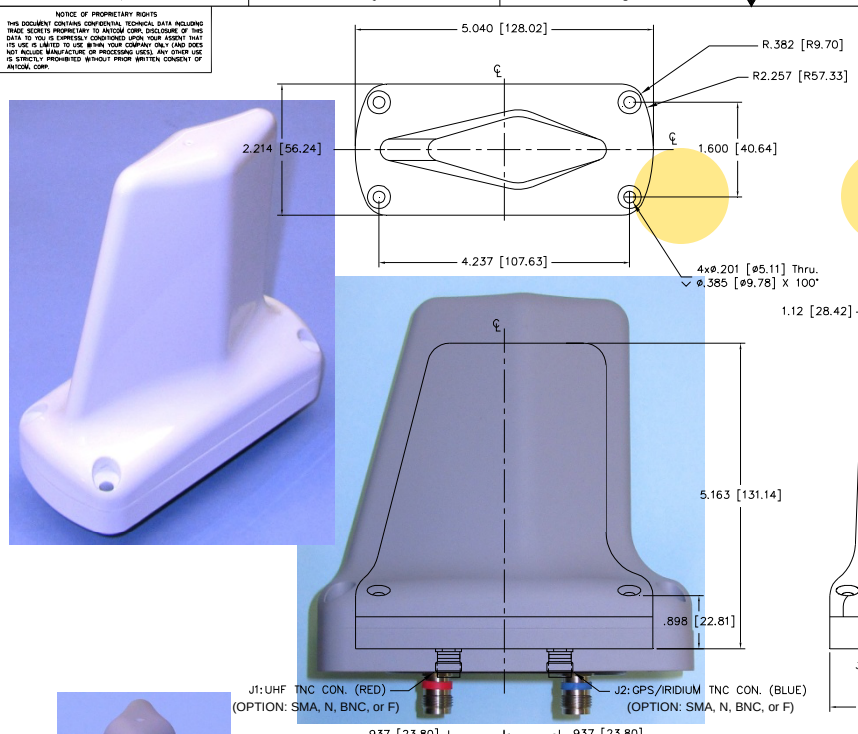

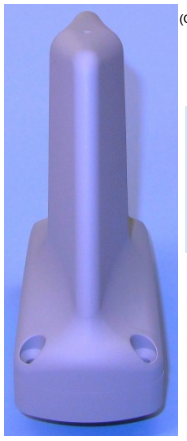

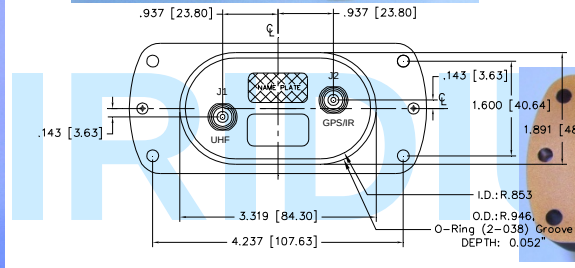

SPECIFICATIONS

ELECTRICAL:

	UHF	(GPS / IRIDIUM / INMARSAT) or (GPS / THURAYA)					
FREQUENCY (MHz):	(300-400) (See Other Frequencies Below)	GPS: (1575 ± 17) Rx Inmarsat/Thuraya: (1542.5 ± 17.5) Iridium: (1609 -1626) Tx Inmarsat/Thuraya: (1642.5 ± 17.5)			L2 OPTION: (1227.60 ±15) MHz		
RADIATION PATTERN:	OMNIDIRECTIONAL	HEMISPHERICAL					
POLARIZATION:	VERTICAL	RHCP			RHCP		
VSWR:	2:1	< 2:1			< 2:1		
IMPEDANCE:	50 ohms	50 ohms			50 ohms		
ANTENNA GAIN (dBic):	> 1.5 dB	Free Space	16 in G.P.	4 ft G.P.	Free Space	16 in G.P.	4 ft G.P.
@ 90 ° (ZENITH):		+ 4.7	+ 0.4	+ 3.5	+ 3.3	+ 1.5	+ 4.9
@ 10 ° Elevation:		- 1.8	- 3.2	- 2.0	- 3.8	- 4.0	- 3.6
@ 20 ° Elevation:		- 0.3	- 1.0	+ 0.8	- 2.0	- 2.0	- 0.1
@ 30 ° Elevation:		+ 1.4	+ 0.9	+ 1.8	- 0.5	0.0	- 1.8
@ 60 - 90 ° Elevation:		> 3.9	+3.4/+0.4	> 2.8	> 2.7	+2.4/+1.5	> 3.0
BEAM WIDTH (3dB):	OMNIDIRECTIONAL	114 Deg.	118 Deg.	139 Deg.	106 Deg.	111 Deg.	75 Deg.
LIGHTNING PROTECTION:	DC GROUNDING						

LNA OPTION (for GPS and Rx only):

LNA GAIN:		33 dB	35 dB
LNA NOISE FIGURE:		3.0 dB	3.0 dB
LNA P1dB Out:		+13 dBm	+13 dBm
LNA DC POWER:		2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA	
REJECTION @ (-50/+50) MHz		-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz		< -65 dB	< -65 dB
POWER HANDLING:	200 watts	1 Watt CW, 2000 Peak 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE:	WIDTH 2.214 in. [56 mm], LENGTH 5.040 in. [128 mm], HEIGHT 5.163 in. [131 mm]
WEIGHT:	14.9 oz. (422g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F
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 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE, AND FIRE RETARDAN
CONNECTOR:	UHF: TNC-FEMALE ; GPS/IRIDIUM: TNC-FEMALE (OPTION: SMA, N, BNC)
MOUNTING:	FLAT FIXED MOUNT; O-RING & 10-32 MOUNTING SCREWS ARE 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:

FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-STD-461E/F, SAE J1455
MIL-E-5400, MIL-I-45208A, MIL-STD-810, MIL-S-901D, MIL-STD-167-1A

SIZE:	START FREQ. (MHz):	STOP FREQ. (MHz):	Other Band	DC BLOCK/LIMITTER:	GPS/RX only LNA:
1: 2" SQ. 1.9: 1.9" SQ. 2: 2.6" DIA. 3: 3.5" DIA. 4: MINI ARINC	225, 300, 350, 370, 400, 425, 450, 470, 500, 820, 990, 1300 1500, 1600, 1700 1800, 1990, 2400	310, 350, 370, 400, 410, 425, 450, 470, 500, 820, 990, 1400 1550, 1650, 1750 1850, 1990, 2500	S: (2.3-2.5) GHz C: (4.4-5.85) GHz L: (1.7-2.0) GHz Ku: (14-16) GHz 1215: L1/L2 GPS 15: L1 GPS 1516: L1GPS/Iridium/Imarsat 1216: L1L2GPS/Iridium/Imarsat	DL: WITH DC BLOCK & WITH LIMITTER BLANK: WITHOUT DC BLOCK NOR LIMITTER	AL: WITH +33 dB LNA P: WITHOUT LNA
5B: Blade, 53: Rod	XXX	YYY	L1RxT: L1GPS/Rx-Thuraya (Add one more Connector)		

P/N: 5BG-300-400-1516-P-XTT-2

CABLE'S LENGTH:	UHF/Other-Band CON.	COLOR:
X: NO CABLE	S: SMA; B: BNC; F: F	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N: N/N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

ITEM NO	QUANTITY REQ'D	DESCRIPTION	PART NO	FINISH
		PARTS LIST		
4	4	10-32 SCREW, MOUNTING, 1.25in	MS24693-C278	-
2	1	O-RING	2-038-N756-75	-

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ± 1/64 DECIMALS .XX± .015 .XXX± .005 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/

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Sep-23-11

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

UHF/ GPS /COM

BLADE ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 5BG-300-400-1516-P-XTT-2 | REV

SCALE 1/1 | SHEET 1 OF 1

ZONE	REV	DESCRIPTION	DATE	APPROVED

2. O-RING AND MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas