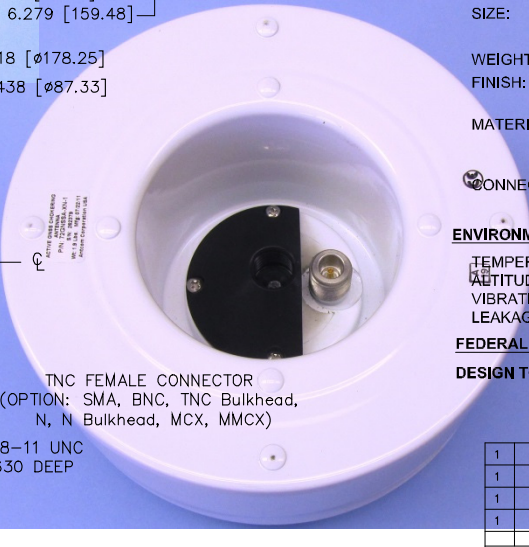
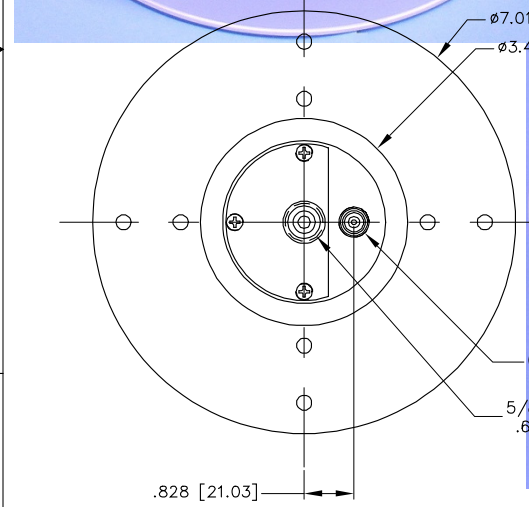
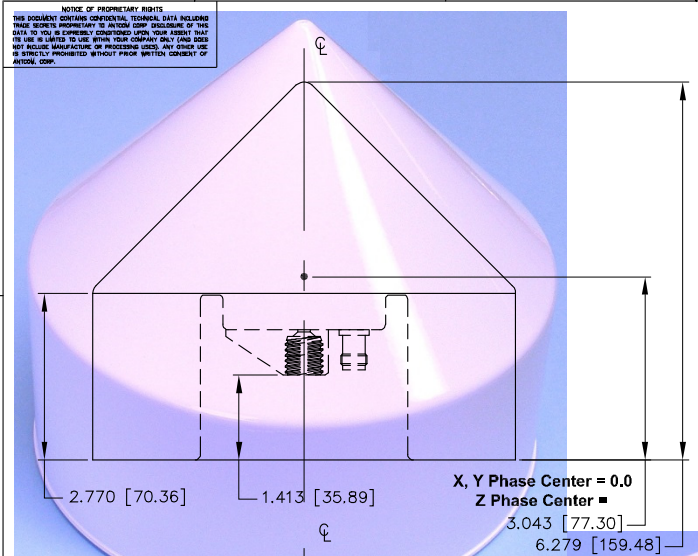


"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@1625-1660MHz
 "-HFO" for Additional OmniStar/TerraStar Rejection: -27dB@1545MHz

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SPECIFICATIONS

ZONE		REV	DESCRIPTION	DATE	APPROVED
E00		0022	RELEASE	Mar-24-09	S. HUYNH

ELECTRICAL:

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz	1227.80 ± 12 MHz 1207.14 ± 10 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609 ± 7.0 MHz
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBi):						
@ 90° (ZENITH):	- 3	+ 4.9	+ 1.4	+ 4.7	+ 6.9	+ 6.0
@ 10° Elevation:	- 13	- 4.7	- 8.2	- 6.5	- 4.1	- 5.4
@ 20° Elevation:	- 12	- 3.1	- 6.9	- 4.3	- 2.0	- 3.1
@ 30° Elevation:	- 10	- 1.6	- 5.3	- 2.3	- 0.1	- 1.2
@ 60-90° Elevation:	> -5	> +3.3	> -0.3	> +2.7	> +5.0	> +4.0
BEAM WIDTH (3dB):	70 Deg.	80 Deg.	75 Deg.	70 Deg.	70 Deg.	70 Deg.
AXIAL RATIO:	1.5 dB	1 dB	1 dB	2 dB	1 dB	4 dB
LIGHTNING PROTECTION:				DC GROUNDING		
LNA GAIN:	35 dB	35 dB	35 dB	33 dB	33 dB	33 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA					
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

MECHANICAL:

SIZE:	DIAMETER: 7.01in. [178 mm] HEIGHT: 6.279 in. [159.48 mm]
WEIGHT:	1.82 lbs. (825 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5541F CLASS 1A
MATERIAL:	6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE
CONNECTOR:	TNC FEMALE CONNECTOR (OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)
ENVIRONMENTAL:	TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] ALTITUDE: 70,000 ft. VIBRATION: > 30 G's LEAKAGE: HERMETICALLY SEAL
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

QTY	DESCRIPTION	PART NO	REV
1	Radome	72GNSS2-A-XT-R2	4
1	1"-14 Mount (Optional)	MTR-3B2	3
1	5/8"-11 Mount	MTR-3B-G5	2
1	Choke Ring	7G1215P001-B3-S Rev H	1

P/N: G5Ant-72CAT1 Connector Color

SIZE:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	X: NO CABLE	S: SMA; SMB; SMR; B; BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8; 1.8" SQ.	S2: 2.6" DIA. ON 5" GROUND PLANE	A: WITH LNA	M: MCX; MM; MMCX; MMR; MMCX-R	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B
2: 2.6" DIA.	72: 7" DIA. CHOKER RING	P: WITHOUT LNA	N: N; NB; N Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.	72C: 7" DIA. CONICAL CHOKER RING		T: TNC; TB: TNC Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC	X,X: Bare on X,Xin Dia. Ground Plane		SMB; SSMC; SSMB; SSM	

ANTCOM CORP. TORRANCE, CALIFORNIA

SURVEY MOUNT,
 L1L2Glonass/L1L2GPS/OmniStar
 G5 Conical Choke Ring Antenna

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 TOLERANCES ARE:
 FRACTIONS DECIMALS ANGLES
 ± 1/64 ± .005 ± .1°
 UNLESS ALL DIMENSIONS
 BREAK EXTERNAL EDGES .005 TO .015
 FILLET R .005 TO R .050
 SLOPE .5X PER MIL-C-8879
 HKS ON A COMMON & 2° ANGLE
 MACHINED SURFACES ✓
 DO NOT SCALE DRAWING

ORIGINALLY DRAWN	S. HUYNH	DATE	Mar-24-09
ORIGINALLY DESIGNED	S. HUYNH	DATE	Mar-24-09
UPDATED	S. HUYNH	DATE	May-29-14
UPDATING DRAWN	P. TRAN	DATE	May-29-14
APPROVED	S. HUYNH	DATE	May-29-14

ANTCOM CORP. TORRANCE, CALIFORNIA
 SURVEY MOUNT,
 L1L2Glonass/L1L2GPS/OmniStar
 G5 Conical Choke Ring Antenna
 D|3CVE1| G5Ant-72CAT1 | A
 SCALE 1/1 SHEET 1 OF 1