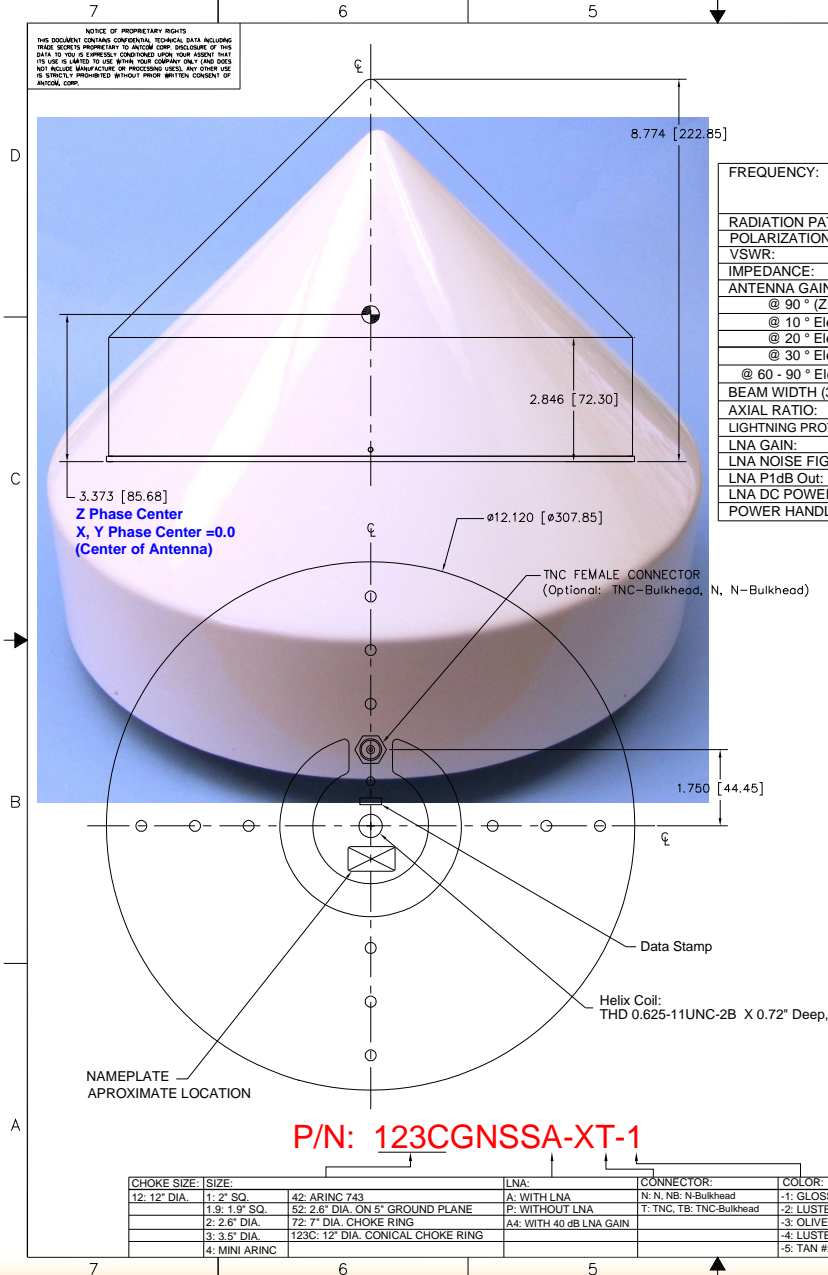


"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: **-22dB**@1616MHz, **-34dB**@(1625-1660)MHz
 "-HFO" for Additional Omnistar Rejection: **-27dB**@1545MHz



SPECIFICATIONS

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	1227.60 ± 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			
VSWR:	< 2.0:1		< 2.0:1			
IMPEDANCE:	50 ohms		50 ohms			
ANTENNA GAIN (dBic):						
@ 90 ° (ZENITH):	+ 3.5	+ 6.0	+ 3.7	+ 2.4	+ 5.4	+ 0.4
@ 10 ° Elevation:	- 23.0	- 9.0	- 10.3	- 10.6	- 7.6	- 12.6
@ 20 ° Elevation:	- 17.5	- 5.5	- 7.8	- 8.6	- 5.6	- 10.6
@ 30 ° Elevation:	- 13.5	- 3.0	- 4.3	- 5.6	- 2.6	- 7.1
@ 60 - 90 ° Elevation:	> - 0.5	> + 4	> + 1.7	> + 0.2	> + 2.9	> -1.6
BEAM WIDTH (3dB):	48 Deg.	68 Deg.	70 Deg.	67 Deg.	69 Deg.	71 Deg.
AXIAL RATIO:	1 dB	2.5 dB	5 dB	1.8 dB	7.8 dB	7.7 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: 12.1in. [308 mm] HEIGHT: 8.77 in. [222.8 mm]
WEIGHT:	9.23 lbs. (4.19 Kg)
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: TNC Bulkhead, N, N-Bulkhead)

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
4	MOUNTING SCREWS	MS24693C273	5
1	INTERNAL ANTENNA / CABLE	3GNSSA-XS-1 / SMA-MR-RG316-3.2in-TNC-FB	4
1	CHOKE RING ADAPTER	12G1215P001-B4	3
1	CHOKE RING / PLUGS	12G1215P001-B3 / B5985K12	2
1	RADOME	12G1215-R-6	1
-2	DESCRIPTION	PART NO	REV

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS: 1/100 ± 0.005 FRACTIONS: 1/32 ± 0.005 ANGLES: ± 1'		ANTCOM CORP. TORRANCE CALIFORNIA OUTLINE DRAWING ACTIVE GNSS CHOKE RING GPS ANTENNA P/N: 123CGNSSA-XT-1 SCALE 1/1 SHEET 1 OF 1	
TOLERANCE 5/16 PER ANSI Y14.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE TO .005 TO .015 SQUARE CORNERS PER MIL-S-8879 FIN ON A COMMON 1/2" DIA MACHINED SURFACES V.25	APPROVED: S. HUYNH DATE: May-22-12	ORIGINAL DRAWN: S. HUYNH DATE: Aug-13-02	ORIGINAL DESIGNED: S. HUYNH DATE: Aug-13-02