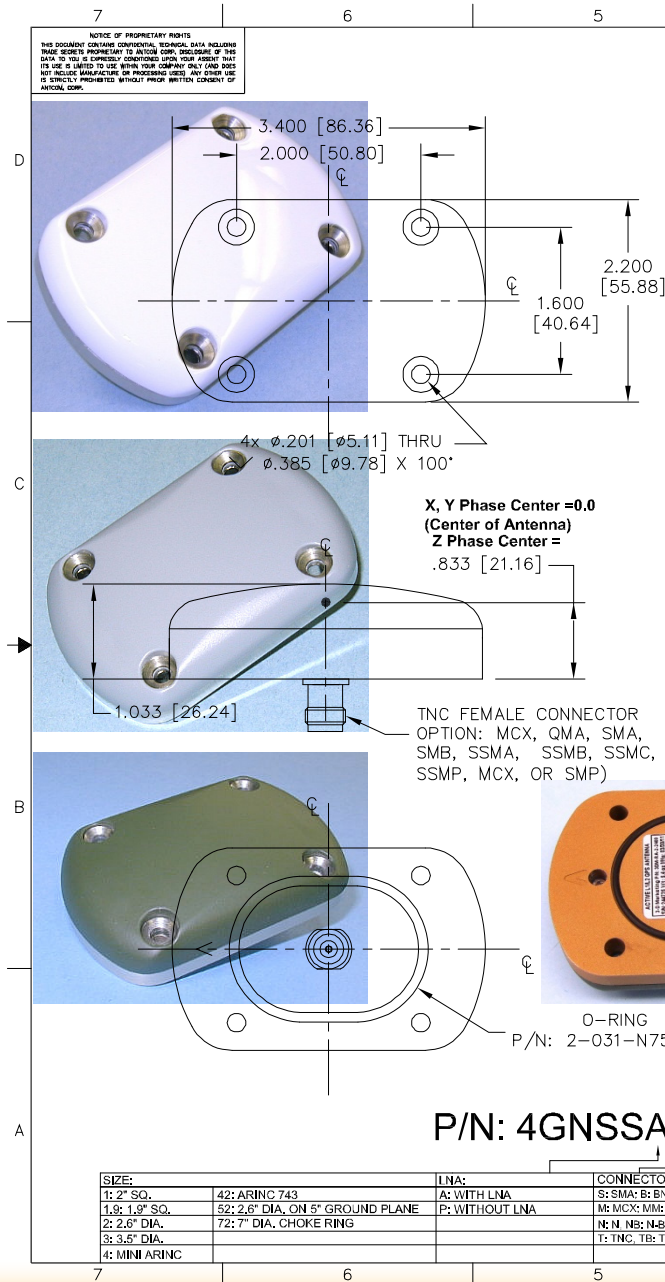


"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: $-22\text{dB}@1616\text{MHz}$, $-34\text{dB}@1665\text{MHz}$, $-27\text{dB}@1545\text{MHz}$
 "-HFO" for Additional Omnistar Rejection:



SPECIFICATIONS		REVISIONS					
ZONE	REV	DESCRIPTION	DATE	APPROVED			
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, L2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:		1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 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	
VSWR:		< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:		50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBi):		5In G.P.	4 ft G.P.	5In G.P.	4 ft G.P.	5In G.P.	4 ft G.P.
@ 90° (ZENITH):		- 0.6	+ 2.4	+ 3.5	+ 3.6	+ 3.0	+ 2.3
@ 10° Elevation:		- 7.2	- 4.5	- 3.0	- 3.6	- 3.6	- 5.4
@ 20° Elevation:		- 5.8	- 1.6	- 1.8	- 0.4	- 2.5	- 1.9
@ 30° Elevation:		- 4.8	+ 0.1	- 0.8	+ 1.5	- 1.6	- 0.1
@ 60 - 90° Elevation:		> -1.7	> -0.7	> 2.6	> 0.6	> 1.9	> 0.1
BEAM WIDTH (3dB):		102 Deg.	128 Deg.	102 Deg.	130 Deg.	98 Deg.	120 Deg.
AXIAL RATIO:		0.5 dB		0.5 dB		1.5 dB	
LIGHTNING PROTECTION:		DC GROUNDING					
LNA GAIN:		35 dB		35 dB		33 dB	
LNA NOISE FIGURE:		3.0 dB		3.0 dB		3.0 dB	
LNA P1dB Out:		+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: WIDTH: 2.20 in. [55.88 mm], LENGTH 3.40 in. [86.36 mm], HEIGHT: 1.033 in. [26.24 mm]

WEIGHT: 9 oz. (256 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, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE
OPTION: MCX, QMA, SMA, SMB, SSMA, SSMC, SSMP, MCX, OR SMP)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

HAULSTONES: < 0.5" Dia.

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

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	REV NO
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (930B5A835)		3
4	Washer, Custom C'Sink	3G15P1001-70		2
1	O-Ring	2-031-N756-75		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES SHALL BE ± 1°		ANTCOM CORP. TORRANCE CALIFORNIA MINI ARINC GNSS ANTENNA P/N: 4GNSSA-XTC-1 SCALE 1/1 SHEET 1 OF 1
ORIGINALLY DRAWN	S. HUYNH Apr-17-14	
ORIGINALLY DESIGNED	S. HUYNH Apr-17-14	
UPDATED	S. HUYNH Mar-09-17	
UPDATE DRAWN	P. TRAN Mar-09-17	
APPROVED	S. HUYNH Mar-09-17	
DO NOT SCALE DRAWING		