



FAA Approved Facility

Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar + 2.4 GHz WiFi Antenna

P/N: G5Ant-3ASRPSF1-24WF

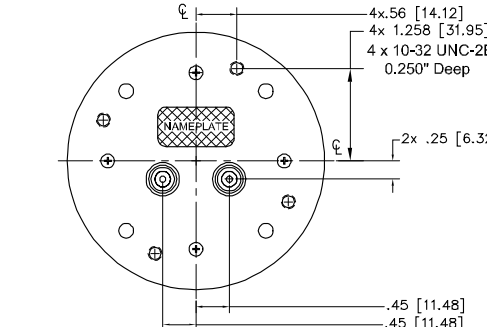
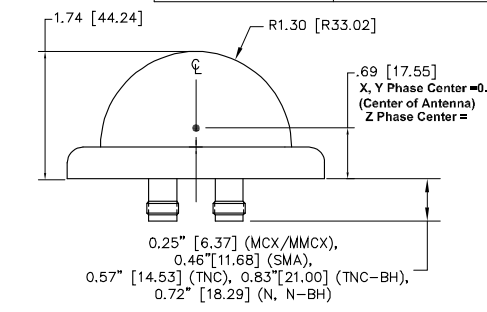
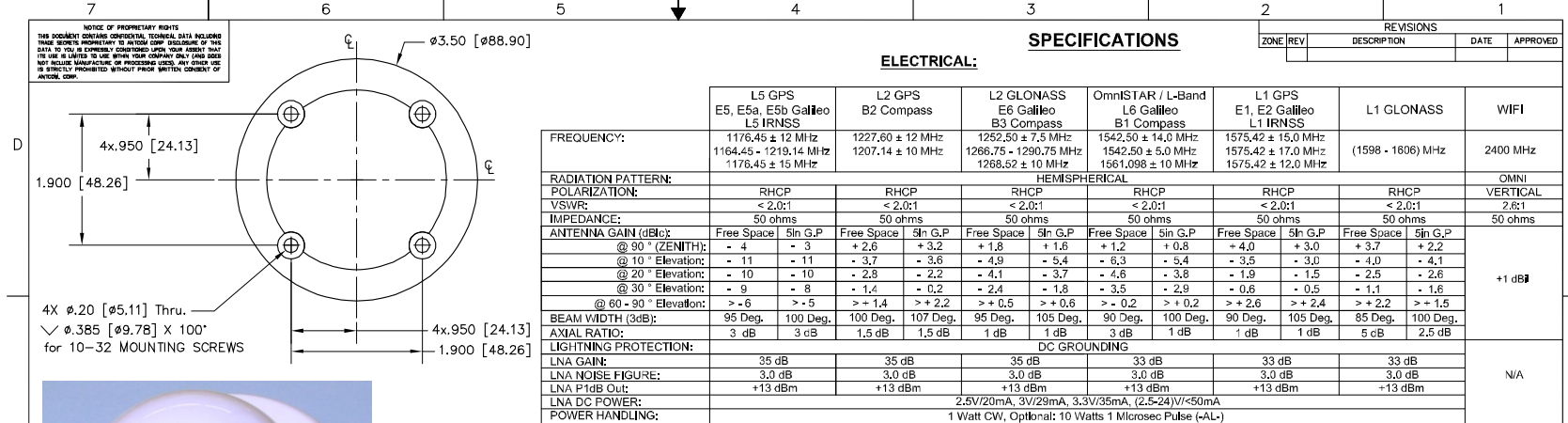
For Buoy, Marines, DeepSea, and Ground Applications

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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



SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	L5 GPS E5, E5a, E5b Galileo L5 IRNSS		L2 GPS B2 Compass		L2 GLONASS E5 Galileo B3 Compass		OmniSTAR / L-Band L6 Galileo B1 Compass		L1 GPS E1, E2 Galileo L1 IRNSS		L1 GLONASS	WIFI	
	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz		1227.60 ± 12 MHz 1207.14 ± 10 MHz		1262.50 ± 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		(1598 - 1806) MHz	2400 MHz	
RADIATION PATTERN:	HEMISPHERICAL												
POLARIZATION:	RHCP		RHCP		RHCP		RHCP		RHCP		RHCP		OMNI
VSWR:	< 2.0:1		< 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		50 ohms
ANTENNA GAIN (dBi):	Free Space	5In G.P	Free Space	5In G.P	Free Space	5In G.P	Free Space	5In G.P	Free Space	5In G.P	Free Space	5In G.P	+1 dBi
@ 90° (ZENITH):	- 4	- 3	+ 2.6	+ 3.2	+ 1.8	+ 1.6	+ 1.2	+ 0.8	+ 4.0	+ 3.0	+ 3.7	+ 2.2	
@ 10° Elevation:	- 11	- 11	- 3.7	- 3.6	- 4.9	- 5.4	- 6.3	- 5.4	- 3.0	- 3.0	- 3.0	- 4.1	
@ 20° Elevation:	- 10	- 10	- 2.8	- 2.2	- 4.1	- 3.7	- 4.5	- 3.8	- 1.9	- 1.5	- 1.5	- 2.6	
@ 30° Elevation:	- 9	- 8	- 1.4	- 0.2	- 2.4	- 1.8	- 3.5	- 2.9	- 0.6	- 0.5	- 1.1	- 1.6	
@ 60 - 90° Elevation:	> -6	> -5	> -1.4	> -2.2	> -0.5	> -0.8	> -0.2	> -0.2	> 2.6	> 2.4	> 2.2	> 1.5	
BEAM WIDTH (3dB):	95 Deg.	100 Deg.	100 Deg.	107 Deg.	95 Deg.	105 Deg.	90 Deg.	100 Deg.	100 Deg.	105 Deg.	85 Deg.	100 Deg.	
AXIAL RATIO:	3 dB	3 dB	1.5 dB	1.5 dB	1 dB	1 dB	3 dB	1 dB	1 dB	1 dB	5 dB	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING												
LNA GAIN:	35 dB		35 dB		35 dB		33 dB		33 dB		33 dB		N/A
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:	2.6V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA												
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)												

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 174 in. [44 mm]
11.3 oz. (320 g)

WEIGHT:

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F CLASS 1A
GLOSS WHITE #17925 PER FED-STD-595B

COLOR:

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

CONNECTOR: TNC FEMALE
(OPTION: SMA, BNC, TNC Bulkhead, N,
N Bulkhead, MCX, MMCX)

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

HAILSTONES: < 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	PART NO	REF ID
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	2
1	O-Ring or Gasket	2-031/N756-75 or 3G15P1001-3G	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMAL ANGLES ± 1/64 DECIMAL ANGLES ± 1° TOLERANCE 5/16 PER ANSI Y14.5	APPROVED	DATE	SCALE	SHEET
ORIGINAL DESIGN: S. HUYNH May-19-12	S. HUYNH	May-19-12	1/1	1 OF 1
UPDATE DESIGN: P. TRAN Feb-25-17	S. HUYNH	Feb-25-17		
APPROVED: S. HUYNH Feb-23-17	S. HUYNH	Feb-23-17		

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SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; R: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SQ.	P: WITHOUT LNA		RPSF Reversed Polarity	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.			M: MCX; MM: MMCX	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.3" DIA.			N: N; NB: N-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC			T: TNC; TB: TNC-Bulkhead	-6: TAN #; FS 23446 or 33446; FED-STD-595