



FAA Approved Facility

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

P/N: G5Ant-3BASRPSF1-24WF

For Buoy, Marines, DeepSea, and Ground Applications

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



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4x 1.900 [48.26]
4x Ø.201 [Ø5.11] Thru
∇Ø.385 [Ø9.78] x 100"

Ø3.500 [Ø88.90]

5.238 [133.05]

4x .556 [14.12]
4x 1.258 [31.95]
4x 10-32 UNC-2B
0.250" Deep

2x .249 [6.32]

RP SMA-F for GSM
(OPTION: SMA, TNC, BNC, N, MCX, MMCX)

SMA for GPS
(OPTION: SMA, TNC, BNC, N, MCX, MMCX)

Ø.452 [11.48]
Ø.452 [11.48]

P/N: G5Ant-3BASRPSF1-24WF

SIZE:	LNA:	CABLE'S LENGTH:	GPS/GSM CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.8: 1.8" SQ.	A: WITH LNA	X: NO CABLE	RPSF: Reversed Polarity SMA Female	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.5" DIA.	P: WITHOUT LNA		M: MCX; Mm: MMCX	-3: OLIVE DRAB GREEN #34094 PLSR FED-STD-595B
3: 3.5" DIA.			N: N; Nb: N; Nc: Nc	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
3B: 3.5" Dia Buoy Radome			T: TNC; Tr: TNC-Subhead	-5: TAN R; FS 23446 or 33446, FED-STD-595

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	WIFI
FREQUENCY:	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 - 1606) MHz	2400 MHz
RADIATION PATTERN:	HEMISPHERICAL						OMNI
POLARIZATION:	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP	VERTICAL
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 (dBic):	Free Space Sin G.P	Free Space Sin G.P	Free Space Sin G.P	Free Space Sin G.P	Free Space Sin G.P	Free Space Sin G.P	Free Space Sin G.P
@ 90° Elevation:	- 4 - 3	+ 2.6 + 3.2	+ 1.8 + 1.6	+ 1.2 + 0.8	+ 4.0 + 3.0	+ 3.7 + 2.2	+ 3.0 + 2.2
@ 20° Elevation:	- 11 - 11	- 3.7 - 3.6	- 4.9 - 5.4	- 6.3 - 5.4	- 3.5 - 3.0	- 4.0 - 4.1	- 4.1 - 4.1
@ 30° Elevation:	- 10 - 10	- 2.8 - 2.2	- 4.1 - 3.7	- 4.6 - 3.8	- 1.9 - 1.5	- 2.5 - 2.6	- 2.6 - 2.6
@ 60-90° Elevation:	- 9 - 8	- 1.4 - 0.2	- 2.4 - 1.8	- 3.5 - 2.9	- 0.6 - 0.5	- 1.1 - 1.6	- 1.6 - 1.6
@ 30° Elevation:	> - 6	> - 5	> + 1.4	> + 0.8	> + 0.2	> + 2.6	> + 2.2
@ 60-90° Elevation:	> - 6	> - 5	> + 1.4	> + 0.8	> + 0.2	> + 2.6	> + 2.2
BEAM WIDTH (3dB):	95 Deg.	100 Deg.	100 Deg.	107 Deg.	95 Deg.	105 Deg.	90 Deg.
AXIAL RATIO:	3 dB	3 dB	1.5 dB	1.5 dB	1 dB	1 dB	1 dB
LIGHTNING PROTECTION:	DC GROUNDING						
LNA GAIN:	35 dB	35 dB	35 dB	33 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	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24V)/<50mA						
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)						

MECHANICAL:

SIZE: DIAMETER: 3.50 in. [88.90 mm]
HEIGHT: 5.24 in. [133.05 mm]

WEIGHT: 12.4 oz. (351 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDITE PER MIL-C-5541F CLASS 1A

COLOR: GLOSS WHITE #17925 PER FED-STD-595B

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

CONNECTOR: SMA FEMALE / RP SMA FEMALE
(OPTION: SMA, TNC, BNC, N, 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PARTS LIST	ITEM NO
4	PANHEAD SCREW, 10-32, 1.25" L, Item 579GN	93085A835	2
1	O-Ring or GASKET, Item 550 or Item 541	2-031/N756-75 or 3GI5P1001-3G	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES SURF FINISH MACHINED SURFACES UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

3.5in Dia.
L1L2Glonass/L1L2GPS/OmniStar
& 2.4GHz WiFi Antenna

REV: 01
D 3C1VE1
G5Ant-3BASRPSF1-24WF

SCALE: 1/1

SHEET 1 OF 1