



Antcom's G5 Antenna, Active L1/L2 Glonass + L1/L2 GPS + OmniStar Antenna, P/N: G5Ant-52AT1

Survey Mount Configuration
(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar)

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ZONE		REVISIONS		
REV	DESCRIPTION	DATE	APPROVED	
ECOJ	0020, RELEASE	Mar-24-09	S. HUYTH	

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:	RHCP		RHCP		RHCP	
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):	- 1	+ 5.3	+ 2.8	+ 2.8	+ 4.9	+ 4.7
@ 10° Elevation:	- 9	- 2.7	- 5.2	- 6.0	- 3.8	- 4.2
@ 20° Elevation:	- 7	- 0.9	- 3.6	- 4.2	- 2.1	- 2.3
@ 30° Elevation:	- 6	+ 0.4	- 2.4	- 2.4	- 0.3	- 0.6
@ 60 - 90° Elevation:	> - 3	> 4.2	> 1.6	> + 1.3	> + 3.4	> + 3.2
BEAM WIDTH (3dB):	85 Deg.	90 Deg.	80 Deg.	80 Deg.	80 Deg.	82 Deg.
AXIAL RATIO:	1.5 dB	1 dB	1 dB	3 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: 5.00 in. [127.00 mm]
HEIGHT: 1.68in [42.7mm]; 0.457in. [11.6mm] Above G.P.

WEIGHT: 7oz. (199 g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
BASE IRIDITE PER MIL-C-5541FCCLASS 1A

MATERIAL: 6061-T6ALUMINUMALLOYBASE
COMPOSITE RADOME,IMPACT, ABRASION,UV, SOLVENT,
SKYDROLRESISTANCE AND FIRE RETARDANT

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]
70,000ft.

VIBRATION: > 30 G's
HERMETICALLYSEAL

FEDERAL & MILITARY SPECIFICATIONS

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541,
MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

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

SIZE:

1: 2" SQ.	42: ARINC743	LN: A:	CABLE LENGTH:	CONNECTOR:	COLOR:
1.9: 1.9" SQ.	52: 2.6" DIA. ON 5" GROUNDPLANE	P: WITH/OUT LNA	X: NO CABLE	S: SMA; SMB; SMBR; B: BNC	-1: GLOSSWHITE#17925PER FED-STD-595B
2: 2.6" DIA.	72: 7" DIA. CHOKERING			M: MCX; MMB; MMCX; MMR; MMCX-R	-2: LUSTERLESS GRAY#36320PER FED-STD-595B
3: 3.5" DIA.	5: Bare on 5in [126mm] Dia. GroundPlane			N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN#34094PER FED-STD-595B
4: MINI ARINC	X.X: Bare on X.Xin Dia. GroundPlane			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK#37038PER FED-STD-595B
				SMC, SSMC, SMB, SSMIA	

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	ITEM NO
1	5/8"-11 Mount	MTR-3B-G5	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 .005 .015 ± 1°
± .002 ± .005 ± 1°

TOLERANCE SURF PER ANS Y14.5
DIM OF ALL SURF
DIM OF INTERNAL EDGES .005 TO .015
DIM OF GROOVES PER MIL-8879
DIM ON A CORNER < 2.0 DIA
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TOLSONANCE, CALIFORNIA

SURVEY MOUNT,
L1L2GLonass/L1L2GPS/OmniStar
G5 ANTENNA

DRW: K. Lee
Mor-24-09

CHKD: S. HUYTH
Mar-24-09

APP: S. HUYTH
Mar-24-09

SCALE 1/1

SHEET 1 OF 1