



**(410-470) MHz UHF & L1L2 GPS Antenna**  
**P/N: 2G52-L1L2-0.41-0.47-AP-39.37ST-UU** (1 Meter Cable/Connector)  
 Other Frequencies and Connector are Available. *Depth Rate = 10 Km*



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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**SPECIFICATIONS**

ZONE	REV	REVISIONS		
		DESCRIPTION	DATE	APPROVED
A		VSWR	10/28/15	S.H.

**ELECTRICAL:**

FREQUENCY:	L1: (1675.42 ±12) MHz	L2: (1227.60 ±12) MHz	UHF: (0.41-0.47) MHz
RADIATION PATTERN:	HEMISPHERICAL		OMNIDIRECTIONAL
POLARIZATION:	RHCP	RHCP	VERTICAL
VSWR:	2:1	2:1	3:1 (410 MHz) 4.8: (440 MHz) 6.2:1 (470 MHz)
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	3 In G.P.	4 ft G.P.
@ 90 ° (ZENITH):	+5.0	+4.7	+3.1
@ 10 ° Elevation:	-2.1	-1.8	-1.9
@ 20 ° Elevation:	-0.6	-0.3	+0.6
@ 30 ° Elevation:	+0.9	+1.4	+1.7
@ 60 -90 ° Elevation:	> 4.0	> 3.9	> 2.4
BEAM WIDTH (3dB):	103 Deg.	114 Deg.	143 Deg.
AXIAL RATIO:	2 dB		2 dB
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB	35 dB	
LNA NOISE FIGURE:	3.0 dB	3.0 dB	
LNA P1dB Out:	+13 dBm	+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA	(2.5-24)V/<50mA	
REJECTION @ (-50/+50) MHz:	-41 dB / -59 dB	-40 dB / -40 dB	
@ (-100/+100) MHz:	< -65 dB	< -65 dB	
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 microsec Pulse (-AL-)		100 Watt

**MECHANICAL:**

SIZE: DIAMETER = 3.70 in. [93.98 mm]  
 HEIGHT = 5.31 in. [135.00 mm]

WEIGHT: 9.4 oz. (266 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL TOP, BLACK ANODIZED BASE

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

CONNECTOR: 39.37" CABLE/SMA MALE FOR GPS  
 39.37" CABLE/TNC MALE FOR UHF

MOUNTING: FIXED MOUNT: FROM TOP OR BOTTOM

**ENVIRONMENTAL:**

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]  
 ALTITUDE: 70,000 ft.  
 DEPTH RATING: 10,000 m (14,000 psi)  
 VIBRATION: > 30 G's  
 LEAKAGE: HERMETICALLY SEALED

**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

FREQUENCY (GHz)	POLARIZATION:	CONNECTOR:	COLOR:
0.31-0.40: (310-400) MHz	V: VERTICAL	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
0.35-0.40: (350-400) MHz	L: LHCP	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
0.41-0.47: (410-470) MHz	R: RHCP	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
0.85-1.90: (850-1900) MHz		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
1.20-2.50: (1200-2500) MHz		DGO: DGO	-5: TAN #33446 PER FED-STD-595B
X.XX-Y.YY:(X.XX-Y.YY) GHz			UU: Gray Color Teflon Coating

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QTY	DESCRIPTION	PART NO	FINISH	REV
3	FLATHEAD SCREW, 8-32 X 82, 1/2" L	91500A194 (ITEM 586d-194)	-	3
1	ADHESIVE GASKET	12345G-3M-3G (ITEM 544)	-	2
1	O-RING	9557K69 (ITEM 551)	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ANGLES ± 1/64 .002 .015 .014 .005

TOLERANCE SW PER ANS Y14.5 BREAK ALL SHARP BREAK EXTERNAL EDGES .005 TO .015 FILED IN .005 TO .010 SURF FINISH PER MIL-S-8879 DITS ON A COATING 6-27-005 MACHINED SURFACES

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE CALIFORNIA  
 UHF / L1L2 GPS ANTENNA  
 D 3CVE1 2052-L1L2-0.41-0.47-AP-39.37ST-UU  
 SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas