



L1/L2 GPS/UHF-SATCOM Antenna, P/N: 10BWUG0215PA-XT-X (8.0 x 11.5 x 10) in, Top Mount Blade/Whip Configuration



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

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11.500
8.845
10.000
1.155
8.000
R5.657
4X3.000
X1.500
8.000
1.750
1.750
Ø.214 Thru., √Ø.390x100° FS
10 PLS for 10-32 SCREWS
4X4.288
4X5.027
2X5.250
11.500

SPECIFICATIONS

ELECTRICAL:	GPS		UHF
	FREQUENCY:	L1: (1575.42 ±12) MHz	L2: (1227.60 ±12) MHz
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		High Angle: RHC P Low Angle: Vertical
VSWR:	< 1.5:1		< 2.0:1
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	4 ft G.P.
@ 90° (ZENITH):	+ 5.4	+ 2.4	+ 5.6
@ 10° Elevation:	- 1.6	- 1.7	- 2.8
@ 20° Elevation:	0.0	+ 0.9	+ 0.5
@ 30° Elevation:	+ 1.3	+ 2.0	+ 2.4
@ 60 - 90° Elevation:	> 4.2	> 2.5	> 3.6
BEAM WIDTH (3dB):	102 Deg.	145 Deg.	93 Deg. 80 Deg.
AXIAL RATIO:	2 dB		
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, (2.5-24V)/<50mA		
REJ. @ (-50/+50) MHz	-41 dB / -59 dB		-40 dB / -40 dB
@ (-100/+100) MHz	< -65 dB		< -65 dB
LIGHTNING PRO.:	DC GROUNDING		
POWER HANDLING:	200 Watt CW		

MECHANICAL:

SIZE: WIDTH: 8in, LENGTH: 11.5in
HEIGHT: 10in
WEIGHT: 4.7 Lbs. (2.1Kg)
FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
BASE IRIDITEPER MIL-C-5441
MATERIAL: 6061-T6ALUMINUMALLOYBASE
COMPOSITE RADOME,IMPACT,ABRASION,UV, SOLVENT,
SKYDROLRESISTANCEANDFIRE RETARDANT
CONNECTOR: TNC FEMALE
(OPTION:SMA, N, MCX, MMCX, or Cable)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
ALTITUDE: 70,000ft
VIBRATION: > 30 G's
LEAKAGE: HERMETICALLYSEAL

FEDERAL & MILITARY SPECIFICATIONS

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

ACCEPTANCE TEST PROCEDURE

ATP-GPS-L1L2-100

CONFORMALITY:	HIGH (INCHES):	IShape	FREQ. BAND	UHF/GPSAMP
CC: CONFORMAL/CURVED		C: CIRCULAR	1215:L1/L2	PP: UHF/GPSAREPASSIVE
CF: CONFORMAL/FLAT		S: SQUARE	15:L1 ONLY	PA: UHFISPASSIVE,GPSISACTIVE
NF: NOT CONFORMAL/FLAT		R: RECTANGULAR	0215:L1/L2	
NC: NOT CONFORMAL/CURVED		B: BLADE	GPS/UHF	
		BW: BLADE/WHIP	0203: UHF only	

10 MOUNTING SCREWS: 10-32, 3/4" MS24693C274

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± 1/64 ± .005 ± 1°
TOLERANCE 5TH PER AND 114.0
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .016
FILLET R .005 TO R .010
SLOPE BREAKS PER FIG. 4-10
DIMS ON A COMMON EDGE .005
MACHINED SURFACES 25°

ANTCOM CORP. TORRANCE CALIFORNIA
L1/L2 GPS/UHF-SATCOM ANTENNA

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
NOTES: UNLESS OTHERWISE SPECIFIED:

NUMBER OF ELEMENT:	CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B	
M: MAG, N: NO MAG	M: MCX, MM: MMCX	-2: LUSTERLESS GRAY #38320 PER FED-STD-595B	
#: CABLE LENGTH (IN)	N: NB, N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
R: RIGHT ANGLE CON.	T: TB, TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B	

DO NOT SCALE DRAWING

APPROVED: S. HUYNH Mar-05-07
DATE FILED: 3CVE1

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas