



L1/L2 GPS/L-Band (1-2 GHz) Helix Antenna, P/N: 18x2.5H1215R-P-XN-1

2.5" Diameter x 18" Tall, Front/Back Mount Configuration, 500 watts

with N, SMA, TNC, or BNC Connector Options

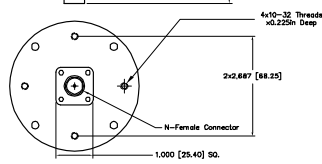
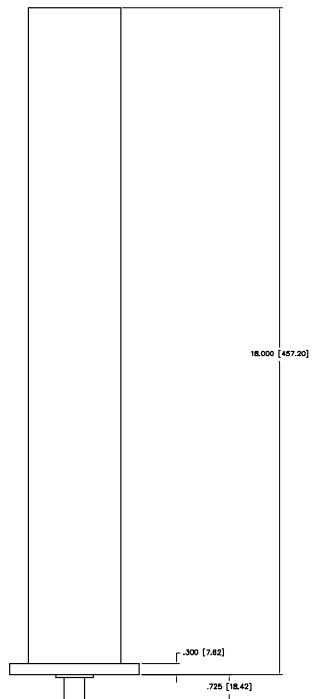
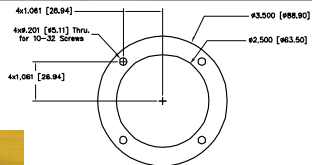


ISO 9001:2008/FAA Approved Facility

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

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

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SPECIFICATIONS

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo E9 Compass	Omnistar / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
		1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.80 ± 12.0 MHz 1207.14 ± 10.0 MHz	1262.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz
GAIN (dBic) in FS	+ 11.5 dBic					
AXIAL RATIO (dB)	1 to 2					
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.7 : 1					
POWER HANDLING	500 watts					

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50mm], BASEDIA = 3.50 in [88.90mm]
HEIGHT: 18 in. [457 mm]
WEIGHT: 17.6oz. (500 g)
FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
 BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A
COLOR: GLOSS WHITE #17925PER FED-STD-595B
 LUSTERLESSGRAY #36320PER FED-STD-595B
 OLIVE DRAB GREEN#34031PER FED-STD-595B
 LUSTERLESSBLACK#37038PER FED-STD-595B
MATERIAL: 6061-T6ALUMINUMALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 AND SKYDROLRESISTANCE, FIRE RETARDANT
CONNECTOR: N-Female
 (OPTION: TNC, SMA, N-Bulkhead, BNC)

ENVIRONMENTAL:

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

FEDERAL & MILITARY SPECIFICATIONS

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	NEW
4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/2")		MS51958-63	-	5
4	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")		MS51958-59	-	4
1	Pipe Mount (Item 482m, without Thread insert)		MTR-2-mod	-	3
1					2
1					1
-1	DESCRIPTION				1

HIGH (in):	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
	LL: TX: LHCP, RX: RHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG MOUNT	M: MMCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: LHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
	L: LHCP				

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UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 ± .015 ± 1°
 ± .001 ± .005 ± .1°
 TOLERANCE 51M PER ANSI Y14.5
 REPOF ALL SURFES
 BEING UNLESS OTHERWISE SPECIFIED
 BEING .001 INCHES ± .001
 SOWM TOLERANCES PER MIL-S-8879
 DATS ON A COORDINATE SYSTEM
 MACHINED SURFACES

CHECKED
 ENGINEER
 APPROVED S. HUYNH
 DEC-07-09
 CAP FILE NO

ANTCOM CORP. TORRANCE, CALIFORNIA
 HIGH GAIN
 IRIDIUM/GPS/GLONASS/
 INMARSAT HELIX ANTENNA
 REV T
 D 3CWE1
 18x2.5H1215R-P-XN-1
 SCALE 1/1
 SHEET 1 OF 1