



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

500 watts, Low side/Back Lobes for Jamming Applications

2.5" Diameter x 18" Tall, Back Mount Configuration, 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](mailto:antennas@antcom.com) . <http://www.antcom.com>

REVISIONS	
ZONE REV	DESCRIPTION DATE APPROVED

**ELECTRICAL:**

FREQUENCY (MHz):	L1 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
	1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1252.50 ± 7.5 MHz 1266.75 - 1200.75 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	1609.0 ± 7.0 MHz
GAIN (dBic) in FS	> + 10.5 dBic					
SIDE/BACK LOBES:	< -20 dB					
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 = 3.50in[ 88.90mm]  
 HEIGHT = 18 in. [457 mm]  
 WEIGHT: 33.5oz. (950 g)  
 FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL  
 BASE IRIDITEPER MIL-C-5541F TYPE II CLASS 1A  
 COLOR: GLOSS WHITE #17925PER FED-STD-595B  
 LUSTERLESSGRAY #36320PER FED-STD-595B  
 OLIVEDRABGREEN #34031PER FED-STD-595B  
 LUSTERLESSBLACK #37038PER FED-STD-595B  
 MATERIAL: 6061-T6ALUMINUMALLOYBASE  
 COMPOSITE RADOME,IMPACT,ABRASION,UV, SOLVENT,  
 AND SKYDROLRESISTANCEFIRE 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	REV NO
8	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")		M551958-59	5
1	Pipe Mount (Item 482m, without Thread insert)		MTR-2-mod	4
1				3
1				2
1				1
-1				

**UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES**

FRACTIONS	DECIMALS	ANGLES
± 1/64	± .005	± 1°

REMOVE ALL BURRS  
 BREAK EXTERNAL EDGES .006 TO .015  
 FILED & .002 TO .005  
 SCREW THREADS PER MIL-C-8879  
 DIMS ON A COMMON 2-D VIEW  
 MACHINED SURFACES .25

DO NOT SCALE DRAWING

**ANTCOM CORP.** TORRANCE CALIFORNIA

HIGH GAIN  
IRIDIUM/GPS/GLONASS/  
INMARSAT HELIX ANTENNA

DESIGNED BY S. HUYNH  
 APPROVED DEC-07-09

REV D 3CVE1 18x2.5H1215R-P-XN-1-J  
 SCALE 1/1 SHEET 1 OF 1

P/N: 18x2.5H1215R-P-XN-1-J