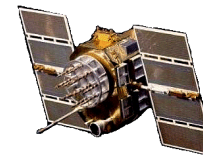




L1/L2 GPS/L-Band (1-2 GHz) Helix Antenna, P/N: 18x2.5H1215R-P-XN-1

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

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

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REVISIONS	
ZONE	DESCRIPTION

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	1282.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.088 ± 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	+ 11.5 dBic					
AXIAL RATIO (dB)	1 to 2					
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.7 : 1					
POWER HANDLING	500 watts					

ELECTRICAL:

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50mm], BASEDIA = 3.50 in[88.90mm]
 HEIGHT = 18 in. [457 mm]
 WEIGHT: 17.6oz. (500g)
 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				

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 #17925PER FED-STD-595B
	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MMCX, MM: MMCX	-2: LUSTERLESS GRAY #36320PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031PER FED-STD-595B
	RR: TX: RHCP, RX: LHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038PER FED-STD-595B
	R: RHCP				
	L: LHCP				

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	FRAC TIONS DECIMALS ANGLES	DRIVER
± 1/64 ± .015 ± .005	± .010 ± .005 ± .010	CHECKED
TOLERANCE 51M PER ANSI Y14.5	REWORK ALL SURFACES	ENGINEER
BEING TO HOLD EDGES .006 TO .016	SOEW TIMELOGS FOR MIL-C-5541F	APPROVED S. HUYNH
DATE ON A COMPARISON Q. 27.006	MACHINED SURFACES	DEC-07-09
DO NOT SCALE DRAWING	CAP FILE NO	SCALE 1/1

ANTCOM CORP. TORRANCE, CALIFORNIA	
HIGH GAIN IRIDIUM/GPS/GLONASS/ INMARSAT HELIX ANTENNA	
REV D	3CVE1
18x2.5H1215R-P-XN-1	
SHEET 1	OF 1

NMO Connector Option is Now Available for Some Antennas