



FAA Approved Facility

Iridium/Inmarsat/L1/L2 GPS/Glonass/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**

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



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

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO YOU IS EXPRESSLY CONSIDERED BREACH YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY (AND DOES NOT INCLUDE MANUFACTURE OR PRODUCTION USES). ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

4x1.061 [26.94]
4x#201 [45.11] Thru for 10-32 Screws
#3.500 [88.90]
#2.500 [63.50]
4x1.061 [26.94]

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

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	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

SPECIFICATIONS

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 IRIDITEPER 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)

16.000 [407.20]
.300 [7.62]
.725 [18.42]
4x10-32 Threads x0.225in Deep
2x2.687 [68.25]
N-Female Connector
1.000 [25.40] SQ.

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	REQD
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 #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				

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
IRIDIUM/GPS/GLONASS/
INMARSAT HELIX ANTENNA

REV: 1
DATE: 30VE1
SCALE: 1/1

18x2.5H1215R-P-XN-1

SHEET 1 OF 1

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

NMO Connector Option is Now Available for Some Antennas