



FAA Approved Facility

Iridium/Inmarsat/L1/L2 GPS/Glonass/L-Band (1-2 GHz) Helix Antenna

P/N: 18x2.5H1215R-P-XX-1 (Passive) ; P/N: 18x2.5H1215R-A-XX-1 (Active with 30dB LNA or Rx only)

2.5" Diameter x 18" Tall, Front/Back Mount Configuration with SMA, TNC, N, 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. REPRODUCTION OF THIS DATA TO YOU IS EXPRESSLY OBSOLETE FROM YOUR ASSENT THAT ITS USE IS LIMITED TO USE WITHIN YOUR COMPANY ONLY AND DOES NOT INCLUDE MANUFACTURE OR PROCESSING UNDER ANY OTHER USE IS EXPRESSLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

4x1.081 [26.84]
4x.201 [5.11] Thru for 10-32 Screws
#3.000 [88.90]
#2.500 [63.50]
4x1.061 [26.94]

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

Active
Passive

ELECTRICAL:

FREQUENCY (MHz):	L5 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 - 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: 200 watts

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50 mm], BASE DIA = 3.50 in [88.90 mm]
HEIGHT = 18 in. [457 mm]

WEIGHT: 16.2 oz. (460 +/- 10) grams

FINISH: SKYDROLRESISTANT POLYURETHANEENAMEL
BASE IRIDITE PER MIL-C-5541F TYPE II CLASS 1A

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
LUSTERLESS GRAY #36320 PER FED-STD-595B
OLIVE DRAB GREEN #34031 PER FED-STD-595B
LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
AND SKYDROL RESISTANCE, FIRE RETARDANT

CONNECTOR: SMA-Female
(OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -166 °F TO +248 °F [-110 °C TO +120 °C]

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

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	INSTR
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				-	3
1				-	2
1				-	1

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

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

NMO Connector Option is Now Available for Some Antennas