



FAA Approved Facility

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

P/N: 18x2.5H1215R-P-XN-1-J, 2.5" Diameter x 18" Tall, Front/Back Mount Configuration


500 watts, Low side/Back Lobes for Jamming Applications

with N, SMA, TNC, or BNC Connector Options

Antenna Mounts: <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>



REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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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 1296.75 - 1299.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.42 ± 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 [63.50 mm], BASE DIA = 3.50 in[88.90 mm]
HEIGHT = 18 in. [457 mm]

WEIGHT: 33.5 oz. (950 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
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: N-Female
(OPTION: TNC, SMA, N-Bulkhead, BNC)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

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

QTY	DESCRIPTION	PART NO	REF
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	DESCRIPTION	PART NO	REF

HIGH (in):	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
	LL: TX: LHCP, RX: RHCP LR: TX: LHCP, RX: RHCP RL: TX: RHCP, RX: LHCP RR: TX: RHCP, RX: RHCP R: RHCP L: LHCP	AT: WITH +34 dB LNA P: WITHOUT LNA	X: NO CABLE M: WITH MAG. MOUNT #: CABLE LENGTH (IN) R: RIGHT ANGLE CON.	S: SMA, P: PINS M: MCX; MM: MMCX N: N; NB: N-Bulkhead T: TNC; TB: TNC- Bulkhead	1: GLOSS WHITE #17925 PER FED-STD-595B 2: LUSTERLESS GRAY #36320 PER FED-STD-595B 3: OLIVE DRAB GREEN #34031 PER FED-STD-595B 4: LUSTERLESS BLACK #37038 PER FED-STD-595B

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ANTCOM CORP. TORRANCE CALIFORNIA

HIGH GAIN
IRIDIUM/GPS/GLONASS/
INMARSAT HELIX ANTENNA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .015 ± 1°
TOLERANCE SHIP PER AMS 114.6
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLET R .005 TO R .010
SCREW THREADS PER MIL-C-8879
DATE ON A COMMON L.S. OF 0000
MACHINED SURFACES
DO NOT SCALE DRAWING

APPROVED: S. HUYNH DEC-07-09
SCALE: 1/1
SHEET 1 OF 1