



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



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REVISIONS	
ZONE	DESCRIPTION

ELECTRICAL:

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E0 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	1227.80 ± 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 1661.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	(1598 - 1606) 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: 17.6 oz. (500 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: -166 °F TO +248 °F [-110 °C TO +120 °C]

ALTITUDE: 70,000 ft.

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	DESCRIPTION	PART NO	FINISH	REQ
4	MOUNTING SCREW: (M5 Pan Head Phillips, 10mm)	90116A250		2
4	MOUNTING SCREW: (M5 Pan Head Phillips, 20mm)	90116A260		1
-1	DESCRIPTION			

HIGH (in):	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
	L1: TX: LHCP, RX: RHCP L2: TX: LHCP, RX: RHCP R1: TX: RHCP, RX: LHCP R2: TX: RHCP, RX: RHCP R: RHCP L: LHCP	A1: WITH +34 dB LNA P: WITHOUT LNA	X: NO CABLE R: 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

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

ANTCOM CORP. TORRANCE CALIFORNIA

DESIGNED BY: S. HUYNH
 ENGINEER: S. HUYNH
 APPROVED: S. HUYNH
 DATE: DEC-07-09

SCALE: 1/1

SHEET: 1 OF 1

ANTCOM CORP. TORRANCE CALIFORNIA

HIGH GAIN
GPS/GLONASS/IRIDIUM/
INMARSAT HELIX ANTENNA

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

SCALE: 1/1

SHEET: 1 OF 1