



FAA Approved Facility

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

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

2.5" Diameter x 18" Tall, Front/Back Mount Configuration, *for Space Applications*
with SMA, TNC, N, 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 1561.098 ± 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: 16.2 oz. (460 +/-10) grams

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: SMA-Female
(OPTION: TNC, TNC-Bulkhead, N, 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, DO-228, MIL-C-5541F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
4	MOUNTING SCREW: (M5 Pan Head Phillips, 10mm)	90116A250	2
4	MOUNTING SCREW: (M5 Pan Head Phillips, 20mm)	90116A260	1
-1	DESCRIPTION		

QUANTITY REQD

DESCRIPTION	PARTS LIST	PART NO	FINISH	REQD

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS ARE DECIMALS
± 1/64 DEC .015 ± 1°
HOLE JOG

TOLERANCE SYM PER ANSI Y14.5
BREAK EXTERNAL EDGES .005 TO .015
FILLET .005 TO .015
SOCKET THREADS PER MIL-C-8879
DAYS ON A COMMON 1/2" GAGE
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
GPS/GLONASS/IRIDIUM/
INMARSAT HELIX ANTENNA

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

DATE: 12/07/09
TIME: 10:00 AM
SCALE: 1/1

REV: 1
REV: 1
REV: 1
REV: 1

SHEET 1 OF 1