



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

ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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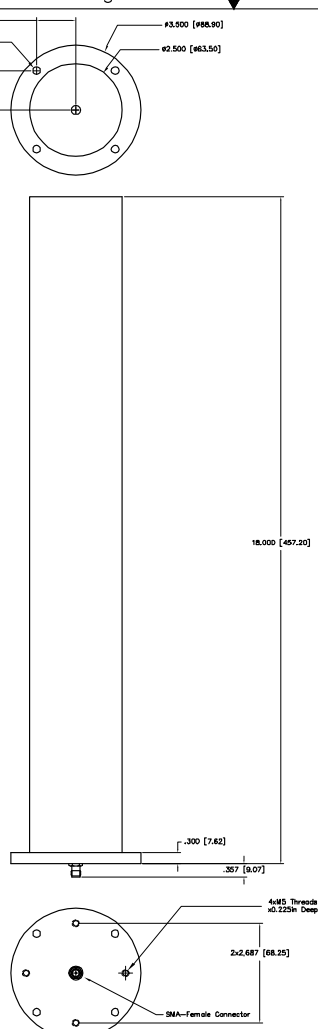
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Active

Passive



4x1.061 [26.94]
4x0.207 [5.25] Thru. for M5 Screws
#3.500 [88.90]
#2.500 [63.50]
4x1.061 [26.94]
18.000 [457.20]
.300 [7.62]
.357 [9.07]
4xM5 Threads ±0.225H Deep
2x2.687 [68.25]
SMA-Female Connector

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

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	1227.80 ± 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: 200 watts

MECHANICAL:

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

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

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL
BASE IRIDITE PER 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: 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	PART NO	FINISH	ITEM NO
4	MOUNTING SCREW: (M5 Pan Head Phillips, 10mm)	90116A250	-	5
4	MOUNTING SCREW: (M5 Pan Head Phillips, 20mm)	90116A260	-	4
1			-	3
1			-	2
1			-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 ± .015 ± .001 ± 1°

TOLERANCE 51M PER ANSI Y14.5

REPOF ALL SURFES BEING INTERNAL EDGES .006 TO .016

BE TYPED IN 1800

SOEW TIMEZES FOR MIL-S-8879

DAY'S ON A COBARD Q.24.006

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN GPS/GLONASS/IRIDIUM/INMARSAT HELIX ANTENNA

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

3CVE1 18x2.5H1215R-P-XS-1

SCALE 1/1 SHEET 1 OF 1

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