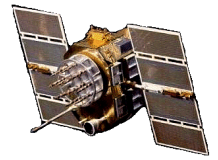




Iridium/Inmarsat/L1/L2 GPS/Glonass/L-Band (1-2 GHz) Helix Antenna
 P/N: 18x2.5H1215R-P-XN-1-J, 2.5" Diameter x 18" Tall, Front/Back Mount Configuration
 500 watts, Low side/Back Lobes for Jamming Applications
 with N, SMA, TNC, or BNC Connector Options



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

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

7
6
5
4
3
2
1

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 > + 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

D
C
B
A

3.500 [88.90]

13.875 [352.43]

18.000 [457.20]

4.125 [104.78]

2.687 [68.25]

2.687 [68.25]

1.000 [25.40] SQ.

MECHANICAL:

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

WEIGHT: 33.5oz. (950g)

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)

7
6
5
4
3
2
1

4x10-32 Threads
x0.225in Deep

2.687 [68.25]

N-Female Connector

1.000 [25.40] SQ.

2.687 [68.25]

ENVIRONMENTAL:

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

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

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

B
A

QTY	DESCRIPTION	PART NO	ITEM NO
8	MOUNTING SCREW: (10-32 Pan Head Phillips, 1/4")	MS51958-59	5
1	Pipe Mount (Item 482m, without Thread insert)	MTR-2-mod	4
1			3
1			2
1			1

HIGH (in):	POLARIZATION:	LNA:	CABLE LENGTH	CONNECTOR	COLOR
LL: TX: LHCP, RX: RHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA, P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B	
LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG MOUNT	M: MMCX, MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B	
RL: TX: RHCP, RX: LHCP		N: N, NB: N-Bulkhead	T: TNC; TB: TNC- Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.		-4: LUSTERLESS BLACK #37038 PER FED-STD-595B	
R: RHCP					
L: LHCP					

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

7
6
5
4
3
2
1

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
 IRIDIUM/GPS/GLONASS/
 INMARSAT HELIX ANTENNA

DESIGNED BY: S. HUYNH
 DEC-07-09

SCALE 1/1

SHEET 1 OF 1

7
6
5
4
3
2
1

NMO Connector Option is Now Available for Some Antennas