



Bare IRIDIUM Helix Antenna, P/N: 0.375R16P-0.25X-X

0.375" Diameter x 3.465" Tall, Soldered Mount Configuration



ISO 9001:2008/FAA Approved Facility

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

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SPECIFICATIONS

ELECTRICAL:		REVISIONS				
		ZONE	REV	DESCRIPTION	DATE	APPROVED
FREQUENCY(MHz):	(1575.42 ±15) (1542.50 ±17.5) (1642.50 ±17.5) (1602-1616) (1610-1626)					
GAIN in FS/3in GP (dBiC)	L1 GPS Rx INMARSAT Tx INMARSAT GLONASS IRIDIUM					
@ 90° (Zenith):	-1.6 -2.9 +0.1 +0.5 +0.5					
@ 10° Elevation	-4.5 -6.0 -2.1 -2.0 -2.0					
@ 20° Elevation	-3.5 -5.0 -1.1 -0.9 -0.9					
@ 30° Elevation	-2.8 -4.2 -0.7 -0.3 -0.3					
@ 45° Elevation	-2.3 -3.5 -0.2 +0.3 +0.3					
@ 70° Elevation	-1.8 -3.0 -0.4 +0.2 +0.2					
BEAMWIDTH(3dB)	152 Deg. 150 Deg. 170 Deg. 160 Deg.					
AXIAL RATIO (dB)	1 to 3 1 to 3 1 to 3 1 to 3 1 to 3					
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 2.0:1					

LNA OPTION for GPS:

LNA GAIN: (27.0+/-2.0)dB
 LNA NOISE FIGURE: <1.4 dB
 LNA P 1dB Out: +13 dBm
 VOLTAGE/CURRENT: (3-10) Volts/20mA

MECHANICAL:

SIZE: DIAMETER: 0.375 in [9.52 mm]
 HEIGHT: 3.465 in. [88.00 mm]
 WEIGHT: < 2.0 oz (56 g)
 FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441
 COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B
 MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, SKYDROL RESISTANCE AND FIRE RETARDANT
 CONNECTOR: MMCX RIGHT ANGLE MALE WITH 7" LONG CABLE (OPTION: MCX, SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

IRIDIUM

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CONFIGURATION:	FREQUENCY:	LNA:	CABLE LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1216:L1/L2/Inmarsat	A1: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1215:L1/L2		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	15: L1	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP; RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
0.5R: 0.5" Dia. Helix Rod	16: 1.616 GHz				
5S: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

QUANTITY	REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	NEW
1	1					1
-2	-1					

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

TOLERANCE S/M PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTERNAL EDGES .005 TO .015

FILLET R .005 TO R .010

SOCKET THREADS PER MIL-C-8879

DI'S ON A CONFORM 2-27-005

MACHINED SURFACES 1/2

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

0.375in Dia Bare GPS/INMARSAT/GLONASS/IRIDIUM HELIX ANTENNA

SEE 300 IN DWG NO D13CVE1 0.375R16P-0.25X-X

APPROVED S. HUY/NH Feb-23-04

SCALE 1/1 SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas