



L1/L2 GPS/L-Band (1-2 GHz) Helix Antenna, P/N: 18x6.3H1215R-P-XS-1
 2.5" Diameter x 18" Tall, Front/Back Mount Configuration, *for Space Applications*
 with SMA, TNC, N, 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		DATE	APPROVED
ZONE	REV	DESCRIPTION	

ELECTRICAL:

FREQUENCY (MHz):	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B1 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	1227.60 ± 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	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 [63.50 mm], BASE DIA = 6.30 in [160.02 mm]
 HEIGHT = 18 in. [457 mm]

WEIGHT: 16.75 oz. (475 +/-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, D0-228, MIL-C-5541F, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

4x1.061 [26.94]

4x0.207 [05.25] Thru. for M5 Screws

4x1.061 [26.94]

06.300 [160.02]

02.500 [63.50]

18.000 [457.20]

4.016 [102.00]

0.357 [9.07]

4xM5 Threads x0.225in Deep

2x2.687 [68.25]

SMA-Female Connector

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	TITLE 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

HIGH (in):	POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17925 PER FED-STD-595B
	LR: TX: RHCP, RX: RHCP		M: WITH MAG. MOUNT	M: MCX; MM: MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	R: RHCP				
	L: LHCP				

P/N: 18x6.3H1215R-P-XS-1

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
GPS/GLONASS/IRIDIUM/
INMARSAT HELIX ANTENNA

DATE: 30/09/11
 DRAWN: S. HUYNH
 DEC-07-09
 SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas