



# ANTENNA EXPERTS

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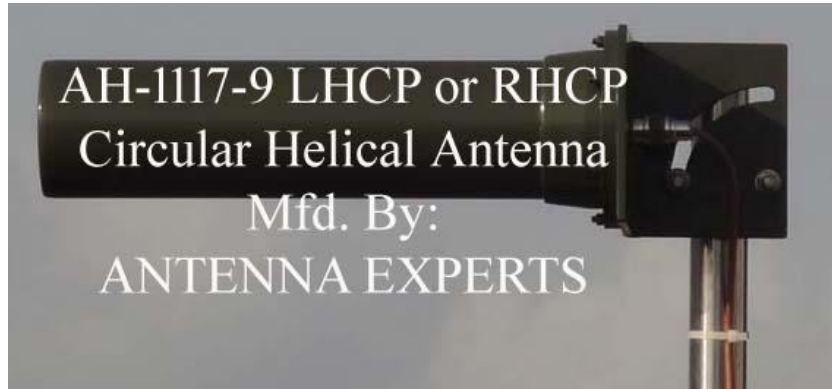
Model AH-1117-9 1100 – 1700 MHz. 9 dBic. Gain

## CIRCULAR POLARIZED LHCP/RHCP HELICAL ANTENNA

**DESIGN FEATURES:** The AH-1117-9 uses extended stubs to provide the greater gain while maintaining the wider beam-width and designed to provide wideband directional transmission/reception of radio signals from 1100-1700 MHz bands including GPS L1, GPS L2, GPS L3, GPS L4, GPS L5, GPS L6, IRIDIUM, GLONASS, and INMARSAT bands. This low-profile antenna use Circular Polarization Antenna Technology - which delivers better penetration through obstruction and interference. This commercial grade antenna provides superior performance as compare to significantly larger and more expensive products. Our AH series helical antennas are smaller than conventional yagi antenna. The AH-1117-9 Helical Antenna is supplied with a specially designed mounting arrangement for steering the antenna over 360 Degrees in Azimuth direction and 90 degrees in elevation.

**CONSTRUCTIONS:** The AH-1117-9, like all our AH series helical antennas, utilizes circular polarization to minimize the effects of multipath interference. Both Right Hand Circular Polarized (RHCP) and Left Hand Circular Polarized (LHCP) helical antenna models are available. The

AH-1117-9 Helical Antenna is light weight, broadband and rugged helical antennas, supplied with fiberglass radome to protect the antenna from environment. Cylindrical enclosure is used for low wind loading and for minimal effect of ice formation on the helical antenna operation as well as providing an aesthetically pleasing appearance. For higher gain requirement, the Helical antenna can be supplied in DUAL stacked or QUAD stacked arrays with suitable power splitter/combiner cable harness.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	1100 - 1700 MHz.
Gain	9 dBic.
Bandwidth	600 MHz.
Polarization	Circular - LHCP or RHCP
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width –Half Power Points	60 Degrees.
Vertical Beam-width –Half Power Points	50 Degrees.
Front to Back Ratio	15 dB.
VSWR – Better Than	2 : 1
RF Power Handling Capacity	200 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Mounting Hardware	Marine Grade Stainless Steel
Gross Weight	1.5 Kg. (3.3 lb)
Wind Rating	200 Km/Hr.
Overall Length	470 mm (18")
Shipping Length	550 mm
Radiating Materials	High Quality Copper
Enclosure Materials	Fiber Glass
Enclosure Length	350 mm
Maximum Mount Pipe Diameter	52 mm (2 Inches)

### ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-) 30 to +70 Degrees Celsius
Storage Temperature	(-) 40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Please contact for further technical documentations like radiation patterns, VSWR curve & Gain curve.

Note: All information contained in the datasheet is subject to change without any prior notice.