



# ANTENNA EXPERTS

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Model AH-2400

2200 – 2600 MHz.

12 dBic. Gain

## CIRCULAR POLARIZED LHCP or RHCP HELICAL ANTENNA

**DESIGN FEATURES:** The AH-2400 uses extended stubs to provide the greater gain while maintaining the wider beam-width. This high-gain low-profile antennas 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-2400 Helical Antenna is supplied with a specially designed mounting arrangement for steering the antenna in both planes, over 360 Degrees in Azimuth and 90 Degrees in Elevation for terrestrial and satellite links.

**CONSTRUCTIONS:** The AH-2400, 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-2400 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                          | 2200 - 2600 MHz.      |
| Gain - Typical                           | 12 dBic.              |
| Bandwidth                                | 400 MHz.              |
| Polarization                             | Circular LHCP or RHCP |
| Input Impedance                          | 50 Ohms.              |
| Radiation Pattern                        | Directional           |
| Horizontal Beam-width –Half Power Points | 55 Degrees.           |
| Vertical Beam-width –Half Power Points   | 45 Degrees.           |
| Front to Back Ratio                      | 18 dB. Typical        |
| VSWR – Better Than                       | 1.5 : 1               |
| RF Power Handling Capacity               | 250 Watts.            |
| Input Termination                        | N-Female              |

### MECHANICAL SPECIFICATIONS:

|                             |                              |
|-----------------------------|------------------------------|
| Mounting Hardware           | Marine Grade Stainless Steel |
| Gross Weight – Less Than    | 2 Kgs.                       |
| Wind Rating                 | 200 Km/Hr.                   |
| Overall Length              | 0.30 Meter.                  |
| Shipping Length             | 0.35 Meter.                  |
| Radiating Materials         | High Quality Copper          |
| Enclosure Diameters         | 44 mm                        |
| Enclosure Materials         | High Strength Fiber Glass    |
| 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                   |

Note: All information contained in the datasheet is subject to change without any prior notice. Customized mounting & color can also be supplied on request. [Please contact us for Radiation Patterns and Frequency Vs VSWR Graph](#)