



ANTENNA EXPERTS

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Model # AH-600D 500 – 700 MHz. 11.5 dBic. Gain

CIRCULAR POLARIZED LHCP/RHCP DUAL STACKED HELICAL ANTENNA

DESIGN FEATURES: The AH-600D dual stacked helical antenna 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 industrial grade antenna provides superior performance as compare to significantly larger and more complex products. Our AH series dual stacked helical antennas are smaller than conventional cross elements yagi antenna. The AH-600D Dual Stacked Helical Antenna is supplied with power splitter/combiner, phasing harness cables, stacking pipe and mounting hardware to mount the dual stacked helical antenna on tower/mast.

CONSTRUCTIONS: The AH-600D, 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-600D Dual Stacked Helical Antenna is light weight, broadband and rugged helical antennas, supplied complete in assembled condition 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.

BEAMWIDTH: If the dual stacked helical antenna installed as per given configuration, the 60 degrees horizontal and 30 degrees vertical beam-width can be obtained. Similarly the dual array can be stacked horizontally to control the beam-width in horizontal plane without disturbing the vertical beam-width.



ELECTRICAL SPECIFICATIONS:

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|--|------------------------------------|
| Frequency Range | 500 - 700 MHz. |
| Gain | 11.5 dBic. |
| Bandwidth | 200 MHz. |
| Polarization | Circular - LHCP or RHCP |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Directional |
| Horizontal Beam-width –Half Power Points | 60 Degrees (if Stacked vertically) |
| Vertical Beam-width –Half Power Points | 30 Degrees (if Stacked vertically) |
| Front to Back Ratio | 17 dB. |
| VSWR – Better Than | 1:2.0 |
| RF Power Handling Capacity | 250 Watts. |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

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|-----------------------------|------------------|
| Mounting Hardware | Stainless Steel |
| Approximately Weight | 10 Kgs. |
| Wind Rating | 190 Km/Hr. |
| Overall Length | 650-700 mm |
| Shipping Length | 750 mm |
| Radiating Materials | Copper |
| Enclosure Materials | Fiber Glass |
| Enclosure diameter | 150 mm |
| Maximum Mount Pipe Diameter | 51 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 drawing, radiation patterns and VSWR curve.

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