



ANTENNA EXPERTS

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Model AH-1013-15 1050 – 1300 MHz. 15 dBic. Gain

CIRCULAR POLARIZED LHCP/RHCP HELICAL ANTENNA

DESIGN FEATURES: The AH-1013-15 uses extended stubs to provide the greater gain while maintaining the wider beam-width. This 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-1013-15 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-1013-15, 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-1013-15 Helical Antenna is light weight, broadband and rugged helical antennas, supplied with ABS 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:

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|--|-------------------------|
| Frequency Range | 1050 - 1300 MHz. |
| Gain @ Mid Band | 15 dBic. |
| Bandwidth | 250 MHz. |
| Polarization | Circular - LHCP or RHCP |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Directional |
| Horizontal Beam-width –Half Power Points | 40 Degrees Typical |
| Vertical Beam-width –Half Power Points | 35 Degrees Typical |
| 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 |
| Weight | 4.0 Kg. |
| Wind Rating | 200 Km/Hr. |
| Overall Length | 850 mm |
| Shipping Length | 900 mm |
| Radiating Materials | High Quality Copper |
| Enclosure Materials | High Strength ABS |
| Enclosure Length | 550 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 us for MIL-STD Specs, Image and Technical Charts

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