



ANTENNA EXPERTS

E-mail: info@antennaexperts.in Website: www.antennaexperts.in

Model # QHA-1113 1100 – 1300 MHz. 2 dBic Gain

Quadrifilar Helix RHCP High Power Omni Jammer Antenna

DESIGN FEATURES: QHA-1113 broadband omni-directional RHCP quadrifilar helix antenna is rugged all weather model, enclosed in a ABS radome, uses high class copper alloy and does not require any field tuning or adjustments. The compact size of RHCP omni-directional quadrifilar helix antenna allows easy handling, shipping and highly suitable for receiving, transmitting, scanning, monitoring, surveillance and jamming applications for lower L band including GPS L2 band without having the requirement of multiple antennas. Antenna termination fitted just below the NATO mounting flange for complete weather protection. Other type of mounting hardware / configuration can be supplied on request.

CONSTRUCTIONS: The RHCP quadrifilar helix antenna is consisting of two (pair) vertical loop radiating elements at right angles to each other, twisted into a helix turns vertically and enclosed in ABS radome. The special “Teflon Dielectric Transmission Line” technique is used to handle high power handling capacity allowing smooth VSWR and typical 2dB_i. gain over the entire 1100-1300 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The stainless steel mounting hardware is supplied with the antenna. Cylindrical shell/enclosure is used for low wind loading and for minimal effect of ice formation on the antenna operation as well as providing an aesthetically pleasing appearance.



ELECTRICAL SPECIFICATIONS:

| | |
|---|------------------|
| Frequency Range | 1100 -1300 MHz. |
| Gain | 2 dBic. Typical |
| Bandwidth | Entire Band |
| Polarization | RHCP |
| Input Impedance | 50 Ohms |
| Radiation Pattern | Omni-directional |
| Vertical Beam-width –Half Power Points. | 120 Degrees |
| VSWR – Better Than | 2:1 |
| RF Power Handling Capacity | 500 Watts |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

| | |
|------------------------------|-------------------------------|
| Materials | 6063T6 Aluminum, Copper & ABS |
| Mounting Hardware -Materials | Marine Grade Stainless Steel |
| Wind Rating | 200 Km/Hr. |
| Overall Length | 200 mm |
| Shipping Length | 250 mm |
| Mounting Type | NATO 4 Holes or Customized |
| Enclosure Material | UV Resistant ABS |
| Enclosure Outer Diameter | 110 mm |
| Gross Weight | 1 Kg. |

ENVIRONMENTAL SPECIFICATIONS:

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|-----------------------|-------------------------------|
| Operating Temperature | (-) 35 to +70 Degrees Celsius |
| Storage Temperature | (-) 40 to +80 Degrees Celsius |
| Humidity | 0 to 95% RH |

Please contact us for further information like radiation patterns & VSWR graph etc.

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