

Fiber Glass Omnidirectional High Gain Collinear Antenna

AC9-650

614-698 MHz.

9 dBi. Gain

DESIGN FEATURES: AC9-650 UHF Fiberglass Omni-directional Collinear Antenna is rugged all weather model uses high class brass and aluminum alloy and does not require any field tuning or adjustments. All junctions are fully welded to prevent RF inter-modulation and antenna is completely protected within a high-tech ruggedized radome to ensure survivability in the worst environments. The heavy duty fiberglass enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The compact size of fiber glass collinear antenna allows easy handling and shipping. The antenna is supplied with olive green military color. Other customized color can also be supplied on request.

CONSTRUCTIONS: The AC9-650 is a center fed design which eliminates the distortion of the radiation pattern and ensures a true omni-directional horizontal pattern. The special stub matching is used for smooth VSWR and constant gain over the specified frequency band. The UHF collinear antenna consist of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass tube. The antenna termination is enclosed at bottom of the antenna for complete weather protection. The stainless steel mounting hardware is supplied with the antenna.



ELECTRICAL SPECIFICATIONS:

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| Frequency Range | 614 -698 MHz. |
| Gain | 9 dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical |
| Input Impedance | 50 Ohms. |
| Radiation Pattern | Omni Directional |
| Vertical Beam-width –Half Power Points | 12 Degrees |
| VSWR – Better Than | 1:2 |
| RF Power Handling Capacity | 150 Watts. |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

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|-----------------------------|------------------|
| Mounting Hardware | Stainless Steel |
| Gross Weight | 5 Kgs. |
| Wind Rating | 200 Km/Hr. |
| Overall Length | 2.2 Meters |
| Shipping Length | 2.3 Meters |
| Support Pipe Outer Diameter | 51 mm |
| Support Pipe Materials | Aluminum |
| Maximum Mount Pipe Diameter | 51 mm (2 Inches) |
| Enclosure Materials | Fiberglass |
| Enclosure Outer Diameter | 45 mm |
| Enclosure Length | 1950 mm |

ENVIRONMENTAL SPECIFICATIONS:

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

Please contact us for further information like Azimuth & Elevation radiation patterns & frequency Vs VSWR of the antenna.

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