



ANTENNA EXPERTS

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Model JC-108-174

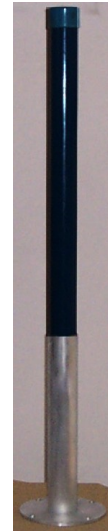
108 – 174 MHz.

-2 dBi. Gain

VHF FIBER GLASS JAMMER COLLINEAR ANTENNA

DESIGN FEATURES: The JC-108-174 Jammer Collinear Antenna is rugged all weather model, enclosed in a Fiber Glass enclosure, uses high class aluminum alloy and does not require any field tuning or adjustments. The N-Female termination of antenna is fixed at the bottom of NATO mounting base antenna to provide complete weather protection. This fiber glass jammer collinear antenna is specially designed to mount on the side of the vehicle with the help antenna adaptor base plate. The antenna uses standard NATO 4 holes pattern base which is suitable to mount the antenna directly on the antenna adaptor base plate. Similarly the antenna can also be supplied with pole mounting hardware (optional). Other customized mounting can also be supplied on request.

CONSTRUCTIONS: The special co-axial stub and spark gap techniques are used for smooth VSWR and gain over entire the 108-174 MHz frequency band. The jammer collinear antenna consists of large diameter brass radiating elements stacked vertically, fed in phase and enclosed in fiber glass housing. The Fiber Glass has excellent transparency for Radio Signal and mechanically Robust to support extra mechanical strength to the collinear antenna. Cylindrical 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. The antenna supplied with olive green colour for defense application.



ELECTRICAL SPECIFICATIONS:

| | |
|--|------------------|
| Frequency Range | 108 - 174 MHz. |
| Gain at Center Frequency | -2 dBi. |
| Bandwidth | Entire Band |
| Polarization | Vertical |
| Input Impedance | 50 Ohms |
| Radiation Pattern | Omni-directional |
| Vertical Beam-width –Half Power Points | 78 Degrees |
| VSWR _ Better Than | 2.5:1 |
| RF Power Handling Capacity | 150 Watts |
| Input Termination | N-Female |

MECHANICAL SPECIFICATIONS:

| | |
|--------------------------------|------------|
| Wind Rating | 170 Km/Hr. |
| Overall Length | 900 mm |
| Shipping Length | 1000 mm |
| Support Pipe Materials | Aluminum |
| Support Pipe Diameter | 50 mm |
| Enclosure Materials | Fiberglass |
| Enclosure Outer Diameters | 44 mm |
| Radiating Elements - Materials | All Brass |
| Gross Weight | 1.8 Kgs. |

ENVIRONMENTAL SPECIFICATIONS:

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