



ANTENNA EXPERTS

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Model JCS-20-100 20-100 MHz. -6 to 0dBi. Gain

VHF OMNI-DIRECTIONAL FIBER GLASS JAMMER ANTENNA

DESIGN FEATURES: The JCS-20-100 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 mounting pattern flange fitted with biconical spring making it rigid to withstand tough MIL environmental condition. 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 30-88 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	20-100 MHz.
Gain at Center Frequency	-6 to 0 dBi. wrt ¼λ whip
Bandwidth	30-88 MHz.
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	500 Watts
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Wind Rating	160 Km/Hr.
Overall Length	2000 mm
Shipping Length	2100 mm
Support Pipe Materials	Aluminum
Support Pipe Diameter	57 mm
Mounting Type	NATO 4 Holes interface
Enclosure Materials	Fiberglass
Enclosure Outer Diameters	44 to 22mm
Radiating Elements - Materials	All Brass
Gross Weight	3.5 Kgs.
Finish	Olive Green

ENVIRONMENTAL SPECIFICATIONS:

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

