



ANTENNA EXPERTS

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Model # JCS4-2025 2000 – 2500 MHz. 4 dBi. Gain

BROADBAND VEHICULAR MOUNT OMNI-DIRECTIONAL JAMMER COLLINEAR ANTENNA

DESIGN FEATURES: The JCS4-2025 broadband vehicular mount jammer collinear antenna is rugged all weather model, enclosed in a ABS radome, uses 6063T6 ultra corrosion resistant aluminum alloy and does not require any field tuning or adjustments. The support pipe and mounting flange are supplied with powder coating finish to protect it further from severe environmental conditions. The compact size of omni-directional antenna allows easy handling, shipping and highly suitable for transmitting, monitoring, scanning and Jamming application without having the requirement of multiple antennas. 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. Multiple radiating elements are located at upper 250 mm portion of the antenna which are stacked in phase.

CONSTRUCTIONS: The jammer collinear antenna is supplied complete in assembled condition. This jammer antenna has smooth VSWR and constant Gain over the 2000-2500 MHz frequency band. The JCS4-2025 jammer collinear antenna consists of ultra corrosion resistant radiating elements and enclosed in ABS housing. The ABS has excellent transparency for Radio Signal and mechanically Robust to support extra mechanical strength to the jammer collinear antenna.

MOUNTING: The antenna is supplied with standard NATO 4 holes flange mounting pattern with stainless steel spring fitted at the base of antenna making it rigid to withstand tough MIL environmental condition. The N-Female termination of Mil grade jammer omni antenna is provided at the bottom of mounting flange.

ELECTRICAL SPECIFICATIONS:

Frequency Range	2000 - 2500 MHz.
Gain	4 dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms.
Radiation Pattern	Omni-directional
Vertical Beam-width -Half Power Points	36 Degrees
VSWR – Better Than	2.0:1
RF Power Handling Capacity	50 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Wind Rating	120 Km/Hr.
Mounting Type	NATO 4 Holes Pattern
Overall Length	600 mm Max
Radiating Elements Position	Upper Portion of 250 mm
Diameter of Radome	45 mm
Support Pipe Materials	6063T6 Aluminum Alloy
Spring Materials	Stainless Steel
Enclosure Materials	ABS
Colour / Finishing	Military Green/Tan Brown
Gross Weight	1.5 Kg.
MTBF	40,000 Hours



ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	MIL-STD-810F, Method 504.1
Storage Temperature	MIL-STD-810F, Method 502.4
Humidity	MIL-STD-810F, Method 507.4
Shock	MIL-STD-810F, Method 516.5
Rain	MIL-STD-810F, Method 506.4
Salt Fog	MIL-STD-810F, Method 509.4
Solar Radiation	MIL-STD-810F, Method 505.4
Sand & Dust	MIL-STD-810F, Method 510.4
Mold & Fungi	MIL-STD-810F, Method 508.5
Mechanical Shock	MIL-STD-810F, Method 516.5
Bouncing Transit	MIL-STD-810F, Method 514.5
Supplemental Environmental Testing	MIL-STD-282, Method 204.1
Electrostatic Discharge	MIL-STD-1686C
Mechanical Parts	MIL-P-11268
Prohibited Substances	Not Used
Workmanship	As Per IPC-610

Please contact us for further information & technical documentations like complete antenna drawing, NATO Interface drawing, E & H radiation patterns, frequency Vs gain graph & frequency Vs VSWR graph etc.

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