

## **ANTENNA EXPERTS**

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Model # BVM-225-450

225 - 450 MHz.

2 dBi Gain

## **UHF Vehicular Mount Omni-Directional Antenna**

**FEATURES:** BVM-225-450 Omni-directional UHF antenna is rugged all weather model, and does not require any field tuning or adjustments. The compact size of omni-directional UHF antenna allows easy handling, shipping and highly suitable receiving, transmitting, scanning, monitoring, surveillance and jamming applications without having the requirement of multiple antennas. Wide elevation beamwidth allow the antenna highly suitable for ground-to-ground and ground-to-air communication applications. The N-Female termination of antenna is fixed at the bottom of the mounting flange for complete weather protection. 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.

**CONSTRUCTIONS:** The UHF omni antenna is consisting of ultra corrosion resistant large diameter radiating element enclosed in ABS radome. The special impedance matching technique is used for smooth VSWR and typical 2dBi. gain over the entire 225-450 MHz. frequency band. The ABS has excellent transparency for Radio Signal and mechanically Robust to support extra mechanical strength to the jammer collinear antenna.

**MOUNTING PROCEDURES:** The antenna is supplied with standard NATO 4 holes mounting pattern with or without biconical spring fitted at the base of antenna making it rigid to withstand tough MIL environmental condition. The N-Female termination of antenna is provided at the bottom of mounting flange.



## **ELECTRICAL SPECIFICATIONS:**

Frequency Range	225-450 MHz.
Gain	2 dBi. Typical
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width –Half Power Points.	78 Degrees
VSWR – Better Than	3:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female
MECHANICAL SPECIFICATIONS:	
Materials	6063T6 Aluminum, SS & ABS
Mounting Hardware	Stainless Steel
Wind Rating	200 Km/Hr. (without spring)
Overall Length	850 mm
Shipping Length	900 mm
Mounting Type	NATO 4 Holes with or w/o spring
Enclosure Materials	ABS
Enclosure (radiating element section) Length	650 mm
Gross Weight	5 Kgs.
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH