



# ANTENNA EXPERTS

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Model # BVM-225-400                      225 – 400 MHz.                      2 dBi Gain

## UHF Ground-To-Air Vehicular Mount Omni-Directional Antenna

**DESIGN FEATURES:** BVM-225-400 Omni-directional UHF ground to air vehicular mount aviation band antenna is rugged all weather model, enclosed in a ABS radome, uses high class brass and aluminum alloy and does not require any field tuning or adjustments. 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 vehicle mount ground to air aviation band antenna is consisting of large diameter radiating elements stacked vertically and enclosed in ABS radome. The special “Choke and Spark Gap” technique is used for smooth VSWR and constant 2dBi. gain over the entire 225-400 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The antenna doesn’t require any ground plane for its operation and is independent from ground. The compact size of omni-directional UHF ground to air antenna allows easy handling, shipping and highly suitable for vehicular application without having the requirement of multiple antennas.

**MOUNTING PROCEDURES:** This vehicle mount antenna is supplied with standard NATO 4 holes pattern with or without biconical spring. The mounting hardware is made of marine grade stainless steel. Customized mounting arrangements can also be supplied on request.



### ELECTRICAL SPECIFICATIONS:

Frequency Range	225 - 400 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	2.5:1
RF Power Handling Capacity	500 Watts.
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Materials	Brass & Aluminum Alloy, ABS
Mounting Hardware -Materials	Marine Grade Stainless Steel
Wind Rating	200 Km/Hr. (without spring base)
Overall Length	0.8 Meter
Shipping Length	0.9 Meter
Maximum Mount Pipe Diameter	NATO 4 holes with or w/o spring
Enclosure Materials	UV Resistant ABS
Enclosure Length	530 mm
Net Weight	4 Kgs.
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

Please contact us for further information like Drawing, Radiation Patter & frequency Vs VSWR of antenna.

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