



# ANTENNA EXPERTS

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Model # BVM-100-1000 100 –1000 MHz. Unity Gain

## BROADBAND VEHICLE MOUNT OMNI ANTENNA

**DESIGN FEATURES:** BVM-100-1000 vehicle mount coaxial dipole antenna is rugged all weather model, enclosed in a ABS radome, uses high class aluminum alloy and does not require any field tuning or adjustments. The compact size of omni-directional coaxial dipole antenna allows easy handling, shipping and highly suitable for receiving, transmitting, scanning, monitoring and jamming applications without having the requirement of multiple antennas. Antenna termination and feed cable lie enclosed inside the mounting pipe for complete weather protection.

**CONSTRUCTIONS:** The vehicle mount coaxial dipole 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 2 to 0dBi. gain over the entire 100-1000 MHz. frequency band. The UV resistant ABS enclosure has excellent transparency for RF signals and enough strength to withstand specified wind loads. The stainless steel mounting hardware is supplied with the antenna.

**MOUNTING PROCEDURES:** This vehicle mount antenna can be supplied with standard side pole mounting arrangements, roof top hole mounting arrangements or NATO 4 holes pattern. Customized mounting arrangements can also be supplied on request.

### ELECTRICAL SPECIFICATIONS:

Frequency Range	100 - 1000 MHz.
Gain	2 to 0dBi.
Bandwidth	Entire Band
Polarization	Vertical
Input Impedance	50 Ohms
Radiation Pattern	Omni-directional
Vertical Beam-width – 3dB.	78 Degrees
VSWR	1:2.5
RF Power Handling Capacity	500 Watts
Input Termination	N-Female

### MECHANICAL SPECIFICATIONS:

Materials	6063T6 Aluminum Alloy
Mounting Hardware -Materials	Stainless Steel
Wind Rating	180 Km/Hr.
Overall Length	1.2 Meters
Mounting Type	NATO 4 Holes or Customized
Support Pipe Outer Diameter	51 mm
Maximum Mount Pipe Diameter	51 mm (2 Inches)
Enclosure Material	UV Resistant ABS
Enclosure Outer Diameter	160 mm
Enclosure Length	1200 mm
Gross Weight	12 Kgs.
Antenna Color	Olive Green

### 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 & frequency Vs VSWR of antenna.

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