



**BROADBAND PROPAGATION** Pty. Ltd. ACN: 143 178 438

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### **BPV-25-500 VHF/ UHF Vehicle Whip**

This is a broadband antenna designed for high performance in the VHF/ UHF bands 25-500Mhz. Power rating is 100 watts continuous, and gain over the band is comparable to a tuned ¼ wave whip antenna. Tuning is automatic and all tuning elements are incorporated within the antenna and base.

Fabricated from fibreglass, the antenna has high impact survival and incorporates high voltage power line protection via a Polyolefin outer jacket covering the full length of the antenna..

The antenna whip is used in conjunction with a rugged base unit with heavy duty stainless steel spring. The base is fitted with mounting holes of UK/Nato 6 hole, or USA 4 hole pattern.

#### **Specifications**

Frequency range:	30 to 500 MHz (without tuner)
Power Rating:	100 watts
Radiation pattern:	Omnidirectional (with some variation according to vehicle type and mounting position)
Gain:	25MHz min. -10dBi, 100MHz min. 0dBi, 500MHz min. +2dBi
VSWR:	Better than 3:5:1 at 25MHz, 2.0:1 at 100MHz and 2.0:1 at 500MHz
Polarisation:	Vertical
Input Impedance:	50 Ohms
Input connector:	BNC Female
Whip Diameter:	12.5mm
Overall height:	3.25m (including base)
Impact Survival:	Better than 80 impacts at the midpoint of the antenna at 40 kph.
Mounting:	UK/Nato 6 hole, or USA 4 hole pattern
Colour:	Mil Spec painted to customer designated colour



The antenna is designed and constructed to meet the requirements of the following standards

- Mil-Std-810F, Method 501.4
- Mil-Std-810F, Method 502.4
- Mil-Std-810F, Method 507.4
- Mil-Std-810F, Method 505.4
- Mil-Std-810F, Method 506.4
- Mil-Std-810F, Method 500.4
- Mil-Std-810F, Method 509.4
- Mil-Std-810F, Method 510.4
- Mil-Std-810E, Method 514.4
- Mil-Std-810F, Method 514.5
- Mil-Std-810F, Method 516.5
- Mil-Std-810F, Method 504

Antenna Base includes mounting holes to suit UK/Nato 6 hole or USA 4 hole pattern