



BROADBAND PROPAGATION

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BPB-30-108 ELEVATED WIDEBAND VHF ANTENNA

The BPB-30-108 is a rugged broadband antenna designed for high performance in the VHF band, 30-108 Mhz. The antenna is used for tactical applications using portable masts or for base-station mounting on towers or other fixed platforms.

It is best suited for applications where increased range is needed to communicate with backpack and vehicle mounted radios from a fixed base location.

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.

The antenna elements break down for shipping and assemble together easily on-site. A range of mounting options can be provided to suit the customers existing pole or mast equipment.

The complete antenna packs into a sturdy cylindrical carrying case measuring only 170 x 7.5 cms

Specifications

| | |
|---------------------|---|
| Frequency range: | 30 to 108 MHz (no tuner needed) |
| Power Rating: | 100 watts CW |
| Radiation pattern: | Omnidirectional (horizontal) |
| Gain: | Average 0dBi across the band |
| VSWR: | Better than 3.5:1 across the band |
| Polarisation: | Vertical |
| Input Impedance: | 50 Ohms |
| Input connector: | N type Female |
| Element Diameter: | 12.5mm |
| Overall height: | 2.5m from top of mast (top element) with 3 x 2.3m counterpoise elements extending below |
| Temperature Rating: | -40 to +70 deg. C operational |
| Wind Rating: | 170 Kph |
| Weight: | 2.9 Kg (without carrying case) |
| Mounting: | Mounts to most Masts, Towers or Poles, or to customer specification. |

