



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.

