



BROADBAND PROPAGATION

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BPB-450-500 ELEVATED WIDEBAND FIXED STATION UHF ANTENNA

The BPB-450-500 is a rugged broadband antenna designed for high performance in the UHF band, 450-500 Mhz. The antenna is used for permanent base-station mounting on towers or other fixed platforms.

Power rating is 50 watts continuous, and gain over the band is comparable to a tuned $\frac{1}{4}$ 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 antenna is designed and built using construction methods and materials that ensure maximum operational life in the full range of adverse environmental conditions from arctic to tropical.

Specifications

Frequency range:	450 to 500 MHz (no tuner needed)
Power Rating:	50 watts CW
Radiation pattern:	Omnidirectional (horizontal)
Gain:	Average 0dBi across the band
VSWR:	Better than 2:1 across the band
Polarisation:	Vertical
Input Impedance:	50 Ohms
Input connector:	N type Female
Element Diameter:	12.5mm
Overall height:	0.35m from tip of top element to bottom of radials
Temperature Rating:	-40 to +70 deg. C operational
Wind Rating:	250 Kph
Weight:	1.7 Kg
Mounting:	To customer specification

