

12-231

CHELTON

V/UHF Antenna

30-512MHz

The 12-231 antenna is a V/UHF passive blade antenna for operation with radios working over the frequency bands 30-88 MHz, 108-174 MHz and 225-512 MHz.

It is configured as a broadband fan monopole. Frequency dependent resistive loading is incorporated, which ensures an acceptable match at low frequencies whilst preserving high efficiency at higher frequencies. The element is also fed via a reactance-compensating network to enhance the gain at the lower frequencies.

ELECTRICAL

Frequency	30-512 MHz
Power Handling	50W max
Impedance	50 Ω
VSWR	30 - 88 MHz < 2.5:1 108 - 118 MHz < 5.0:1 118 - 174 MHz < 2.5:1 225 - 512 MHz < 2.5:1
Gain	30 MHz > -23dBi 88 MHz > -14dBi 108 - 174 MHz > -4dBi 225 - 512 MHz > 2dBi
Polarisation	Vertical

MECHANICAL

Dimensions (LxWxH)	298.7 x 91.4 x 373.3 mm
Weight	1.7 kg
Connector	TNC Female

ENVIRONMENTAL

Continuous Operating Temperature	- 40°C Min + 71°C Max
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