# 3000-900

## CHELTON

### VHF Broadband Vehicle Antenna

The 3000-900 VHF Broadband Vehicle Antenna has been developed to meet the requirement of the extended VHF band 30 MHz to 108 MHz. It offers excellent electrical performance without the need for tuning.

The slimline, fibreglass, whip is exceptionally resilient to high impact, making it suitable for use on both tracked and wheeled vehicles.

The 3000-900 has been fully tested to meet the demands of equipment used in a military environment and is designed for worldwide operation and deployment.

The two whip sections is available in two colours: NATO Green and Desert Sand.

ANTENNA BASE AND FIXING KIT

308 mm max



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145 mm max

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### ELECTRICAL

Frequency	30 MHz - 108 MHz	
Gain	-2 dBi @ 30 MHz	
	0 dBi @ 88 MHz	
	+2 dBi @ 88 MHz	
Polarisation	Vertical	
Impedance	50 ohm (nominal)	
Horizontal Radiation Pattern	Essentially omnidirectional in azimuth	
Power Rating	100 W cw (maximum)	
VSWR	3:1	
Connectors	BNC Female	
HV Protection	16 kV rms 50 Hz/60 Hz from 90 mm above the base of the assembled whip sections	

#### **MECHANICAL**

Height:	2.6 m (maximum)
Base Diameter:	145 mm (maximum)
Diameter of Whip:	15 mm (nominal)
Lower setion:	1293 mm
Upper section:	1389 mm (including thread)
2.7 kg (maximum)	
Mounting Standard - 3/6 Hole UK/NATO Patter	
Optional - 4 Hole US Pattern	
	Base Diameter: Diameter of Whip: Lower setion: Upper section: 2.7 kg (maximum) Standard - 3/6 Hole

#### **ENVIRONMENTAL**

Temperature	Operational: -40°C to +70°C Storage: -40°C to +85°C	
Humidity	Up to 95% RH up to 55%	
Wind	162 kph	
Impact	Survival - better than 25 impacts at the mid- point of the whip at a speed of 40 kph	

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