

# 4310

# CHELTON

## Broadband UHF Antenna

Chelton's' strategic marketing alliance with The Shakespeare Company has facilitated a broader portfolio of products to be offered in the market.

The 4310 Broadband UHF Antenna is a centre-fed, coaxial sleeve dipole, which is sealed into a fibreglass radome to provide long-lasting protection from the elements. The internal elements are brass tubing for maximum conductivity and dependability.

The antenna has a broadband choking circuit to allow it to operate independently of a ground plane. This innovative feature permits the antenna to operate on vehicles, shelters, buildings, mast and shipboard. The built-in passive broadband matching network is engineered to provide instantaneous bandwidth across the full frequency spectrum, and is centred around a 50 ohm impedance.

Between the fibreglass radome and the mounting plate is a stainless steel spring, which allows flexing under impact. All metal parts are black oxide coated to resist a salt water environment.

A grounding strap and 1/2 inch stainless steel screws and hardware are supplied.



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### ELECTRICAL

<b>Frequency</b>	225 MHz - 450 MHz
<b>Gain</b>	See gain plot below
<b>Polarisation</b>	Vertical
<b>Impedance</b>	50 ohm (nominal)
<b>Radiation Pattern</b>	Essentially omnidirectional in azimuth
<b>VSWR</b>	≤ 3.5:1
<b>Power Rating</b>	60 W CW (maximum) at 50 °C
<b>Connectors</b>	N Type Female

### MECHANICAL

<b>Dimensions</b>	Height:	1.3 m (nominal)
	Base Diameter:	152 mm (nominal)
<b>Weight</b>	2.27 kg (nominal)	
<b>Mounting Configuration</b>	4-bolt US Standard	

### ENVIRONMENTAL

<b>Temperature</b>	-45°C to +60°C
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