TYPE 12-5006

CHELTON

V/UHF Tuneable Antenna

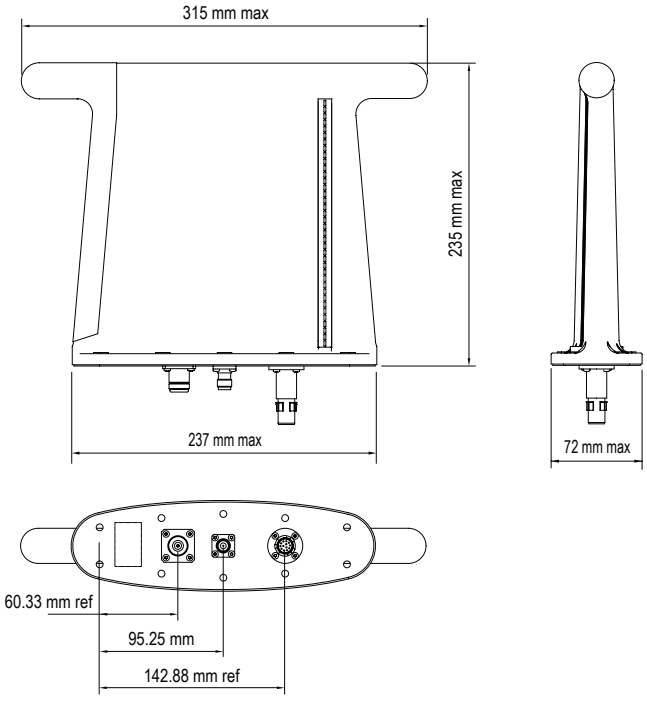
Chelton Antenna Systems' tuneable antennas provide radios with transmission and receiver capability in the V/UHF frequency bands. There is an ever increasing demand for continuous, resilient, secure communications over a wider bandwidth and greater range.

The **12-5006** operates at a power of 50 W to enable use with new high power radios. Low maintenance costs and a resilient antenna mean lower lifecycle costs.

The **12-5006** is a multiband tuneable antenna designed for use with radios operating in the VHF and UHF frequency bands.

The antenna is compatible with Chelton's range of logic units that are capable of providing an interface to current fast frequency-hopping radios and, as a system, is capable of meeting the tuning times with modes such as Havequick II and Saturn.

The **12-5006** comprises a pressure-moulded, composite radome of aerofoil section, which houses the electronic assembly, enclosed by an aluminium alloy baseplate that supports three connectors (two RF and one DC control).



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ELECTRICAL

Frequency	30 MHz 960 MHz	- 600 MHz - 1220 MHz	
Gain	> -14.5dBi > -5 dBi > -1 dBi > 0 dBi > 0 dBi	30 MHz - 88 MHz - 108 MHz - 225 MHz - 960 MHz -	 174 MHz 600 MHz 1220 MHz
VSWR	> 2.5:1 > 3.0:1 > 2.5:1 > 2.5:1 > 2.0:1 > 1.8 dBi > 2.0:1	30 MHz - 88 MHz - 118 MHz - 225 MHz - 960 MHz - 1000 MHz - 1100 MHz -	30 MHz 118 MHz 174 MHz 600 MHz 1000 MHz 1100 MHz 1220 MHz
Polarisation	Predominantly vertical when mounted vertically		
Power Handling	50 cw max 50 cw max 50 cw max 1.5 kW peak 0.4% duty cycle	30 MHz - 118 MHz - 225 MHz - 960 MHz -	88 MHz 174 MHz 600 MHz 1220 MHz
Connectors	RF: N Female, TNC Female DC: D38999/49WB35PN		

MECHANICAL

Dimensions	315 mm x 235 mm x 72 mm (maximum, not including connectors)
Weight	1.59 kg (maximum)
Mounting	10 holes fixed location

ENVIRONMENTAL

Temperature	Operational: -54°C to +71°C Storage: -54°C to +85°C
Altitude	35,000 ft

CERTIFICATION

MIL-STD-810G, MIL-STD-461, MIL-STD-464, RTCA DO-160G

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