

12-5009

CHELTON

Multiband Tuneable Antenna

30MHz - 520MHz

690MHz - 950MHz

Key features:

- **Multiband tuneable antenna**
- **Operates on two separate frequency bands**
- **Compatible with Havequick II and Saturn**

The 12-5009 is a multiband tuneable antenna designed to provide communications in the frequency ranges 30 MHz to 512 MHz and 690 to 950 MHz.

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 antenna is designed to meet the requirements of ED-23C.



ELECTRICAL

Frequency	30MHz - 88MHz 108MHz - 118MHz 118MHz - 174MHz 225MHz - 512MHz 698MHz - 941MHz
Power	30 - 512MHz - 50W CW Max 698 - 941MHz - 15W CW Max
Impedance	50 Ω
VSWR	30 - 88 MHz: ≤2.5:1 108 - 118MHz: ≤ 3.0:1 118 - 174MHz: ≤2.5:1 225 - 512MHz: ≤2.5:1 698 - 941MHz: ≤2.0:1
Gain	30MHz: -15.5dBi 88MHz: -6dBi 108 - 174MHz: -3dBi avg 225 - 512MHz: 0dBi avg 698 - 941MHz: 0dBi avg
Polarisation	Vertical
Radiation	Omnidirectional

MECHANICAL

Dimensions (LxWxH)	315 x 72 x 234.1mm
Weight	1.59kg
Connector	V/UHF - TNC Upper UHF - N DC - D38999
Platform(s)	Air

ENVIRONMENTAL

Standard	MIL-STD-810G DO160G
Continuous Operating Temperature	- 54°C Min + 71°C Max
Altitude (Operation)	35000ft
Vibration	MIL-STD-810G w/Ch 1, Method 514.7, Procedure I DO160G Section 8 Cat R

