

12-5006

CHELTON

Multiband Tuneable Antenna

30MHz - 600MHz

960MHz - 1220MHz

Key features:

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

The 12-5006 is a multiband tuneable antenna designed to provide communications in the 30-600 MHz and 960-1220 MHz range.

The antenna is compatible with Chelton's range of logic units which 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 - 600MHz 960MHz - 1220MHz |
| Power | V/UHF - 50W CW Max L-Band - 1.5 kW peak with 0.4% Duty Cycle |
| Impedance | 50 Ω |
| VSWR | 30 - 88MHz: ≤2.5:1 108 - 118MHz: ≤ 3.0:1 118 - 174 MHz: ≤2.5:1 225 - 600 MHz: ≤2.5:1 960 - 1220 MHz: ≤2.0:1 |
| Gain | 30MHz: -15.5dBi 88MHz: -6dBi 108 - 174MHz: -3dBi avg 225 - 600MHz: 0dBi avg 960 - 1220 MHz: 0 dBi avg |
| Polarisation | Vertical |
| Radiation | Omnidirectional |

MECHANICAL

| | |
|---------------------------|--|
| Dimensions (LxWxH) | 315 x 72 x 234.1mm |
| Weight | 1.59 kg |
| Connector | V/UHF - TNC L-Band - 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 |

