

12-512

CHELTON

V/UHF Antenna

30-512MHz

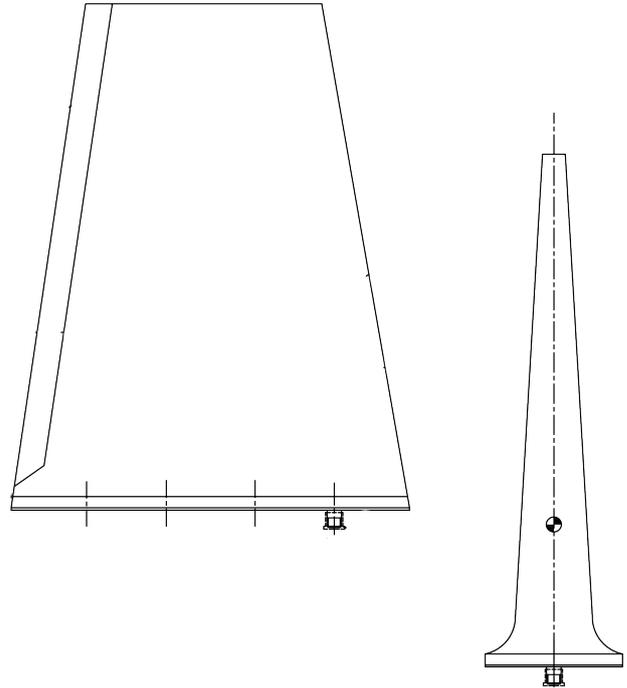
Key features:

- Dual band passive
- Gain enhancement at lower frequencies
- Subsonic airborne applications

The 12-512 is a passive antenna designed to operate within the frequency ranges 30-88 MHz, 118-174 MHz and 225-521 MHz.

The design is intended primarily for use in general subsonic airborne applications.

The antenna is configured as a broadband fan monopole incorporating a frequency dependent matching network to ensure acceptable VSWR at lower frequencies, whilst preserving optimum gain performance at higher frequencies.



ELECTRICAL

Frequency	30-512 MHz
Power Handling	50W max
Impedance	50 Ω
VSWR	30 - 88 MHz < 2.5:1 118 - 174 MHz < 2.0:1 225 - 512 MHz < 2.0:1
Gain	30 MHz > -22dBi 174 MHz > 0dBi 225 - 512 MHz > 0dBi
Polarisation	Vertical

MECHANICAL

Dimensions (LxWxH)	318.8 x 110.5 x 411.52 mm
Weight	3.0 kg
Connector	TNC Female

ENVIRONMENTAL

Continuous Operating Temperature	- 54°C Min + 71°C Max
Altitude	50,000 ft
Vibration	MIL-STD-810E, Method 514.4, Proc I, Cat 5

