

978-900

CHELTON

UHF Ground to Air Antenna

The 978-900 is a brass, folded-monopole, enclosed in a robust, fibreglass, cylindrical radome, mounted on a skeleton groundplane made from four aluminium radial rods inclined downwards, and four curved rods.

Designed to handle powers of up to 1.2 kW (PEP), the antenna is compact and of rugged construction. Operating over the frequency range of 225 MHz to 400 MHz, the antenna can be used at any frequency in the aeronautical UHF band. The concentric clamp at the base of the radome allows the antenna to be mounted on a vertical pole with a diameter between 30 mm to 60 mm.



ELECTRICAL

Frequency	225 MHz - 400 MHz
Gain	≤ 1.5 dBi
Polarisation	Vertical
Radiation Pattern	Linear vertical
Power Rating	1.2 kW (PEP)
Impedance	50 ohm nominal
VSWR	2:1
Lightning	All parts of the antenna are DC grounded
Connector	N Type Female

MECHANICAL

Overall Height	600 mm (maximum)
Diameter	600 mm (outside of groundplane radials) (maximum)
Weight	4 kg (maximum)
Mounting	Concentric clamps for mounting onto 35 mm - 60 mm diameter pole

ENVIRONMENTAL

Temperature	-40°C to +55°C
Humidity	97% for up to 20 hours
Hail	30 mm diameter
Wind	66 m/s (maximum)
Ice/Snow	25 mm radial ice (maximum)
Driving Rain	100 mm/h (maximum)



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