

5100-9012

CHELTON

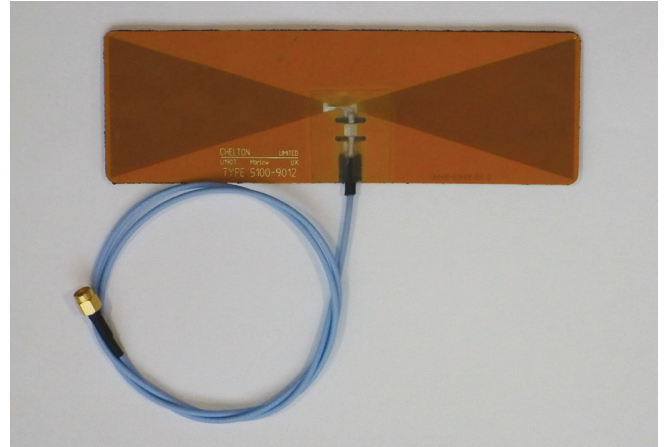
Covert Dipole Antenna

The 5100-9012 is a small, lightweight, flexible, covert, dipole antenna designed to be used concealed in an operative's clothing. The antenna operates in the frequency range 350 MHz to 450 MHz.

The antenna is constructed from a thin, conductive foam layer, that is mounted onto a flexible, plastic based PCB, and is fitted with a coaxial cable, the free end of which is terminated in an SMA male connector; this connector can be readily changed to suit the radio interface.

The cable transition areas are protected by a nitrile rubber heat shrink covering. The cable-to-antenna connection is coated in a conformal, silicon based layer to protect against corrosion caused by moisture and heat. The 5100-9012 is based on dipole technology and is groundplane independent. It can be orientated to provide horizontal or vertical polarization, as required, for operational needs.

The antenna is optimised for performance on the body when worn across the back of the shoulders in the horizontal polarisation mode. The length of the cable can be tailored to suit the operational mounting position. In addition, the antenna can be supplied with ventilation holes in the film, a suitably coloured coating, or with fixing holes.

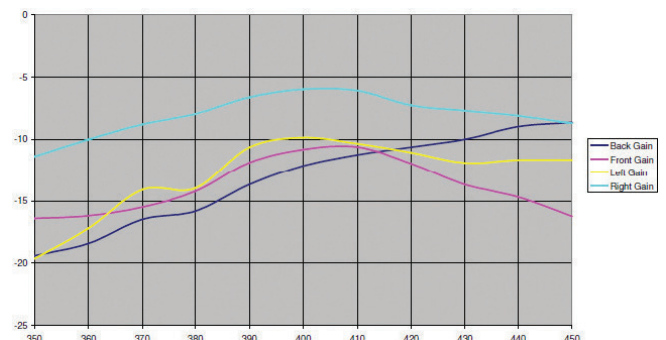


ELECTRICAL

Frequency Range	350 MHz - 450 MHz
Gain	See gain plots below
Polarisation	Horizontal or vertical
VSWR	≤ 3:1
Power Rating	2 W CW (maximum)
Impedance	50 ohm (nominal)
Radio Connector	SMA Male

MECHANICAL

Dimensions (mm)	60 x 180 x 6 (maximum)
Cable Length	770 mm (maximum)
Weight	25 g (maximum)



5100-9012

CHELTON

Covert Dipole Antenna

