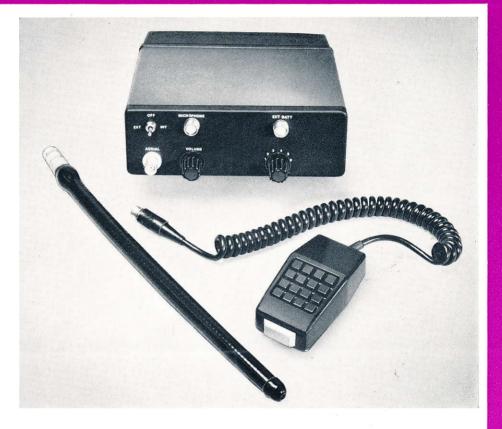
sec mobile radio

V.H.F A.M Portable Radio Telephone

RC570

Features

Small lightweight portable Power output 5W Six-channel capability Battery pack option Channel spacing 12.5kHz or 25kHz



Description

The RC570 is a medium power a.m portable radiotelephone of lightweight and rugged construction. A combined loudspeaker/ microphone is provided, and a choice of battery packs is available to meet operational requirements. A socket is provided for connexion to a 12V vehicle supply and a vehicle antenna may also be connected in place of the helical antenna normally fitted. The equipment has been designed to meet the requirements of Home Office Specification W6770.

Data Summary

Service : Single or two frequency simplex a.m.

Frequency ranges :

68MHz to 88MHz.

- 105MHz to 108MHz (transmit) 138MHz to 141MHz (receive).
- 156MHz to 174MHz.

Channels: Six within any 1MHz portion of the appropriate band.

Channel spacing : 12 ·5kHz or 25kHz. Operating temperature : -10°C to +40°C. Power supply : Optional battery packs available for one hour minimum or eight hour minimum working on a 10% transmit, 40% receive and 50% standby duty cycle. Socket provided for external connection to a supply between 11V and 16V d.c., positive or negative earth.

Size: 1 hour pack

1 hour pack 171 × 184 × 57mm (6·75 × 7·2 × 2·25in) 8 hour pack 171 × 216 × 57mm (6·75 × 8·5 × 2·25in) 2·9kg (6·5lb)

Transmitter

R.F power output : Not less than 5W with a d.c input of 11.5V.

 $\begin{array}{l} \textbf{Modulation:} Amplitude modulation with \\ control to limit peak modulation to a preset \\ maximum normally 80%. \\ \textbf{Modulation distortion:} With a modulation \\ frequency of 1 kHz, at a depth of 50%, \\ harmonic distortion less than 6%. \\ \textbf{Spurious emissions:} Less than 2.5 \mu W. \end{array}$

Receiver

Sensitivity: Better than 10dB s + n/n ratio for 1.5μ V e.m.f modulated 30% at 1kHz on any channel.

A.G.C: Less than 6dB variation from 1μ V to 100mV e.m.f.

Mute threshold : Internally preset from less than $0{\cdot}8\mu V$ e.m.f.

Spurious responses : Suppressed by more than 70dB.

Audio output : Greater than 2W r.m.s into 8Ω .

Audio distortion (with a modulation frequency of 1kHz at a depth of 30%) : Less than 5% at 2W into 8 Ω .

Crystals

To GEC specification EDB 907257/11 Style K. A battery charger is available.

The information contained herein is subject to confirmation at the time of ordering.

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