

CV79 - CW Magnetron, Interdigital

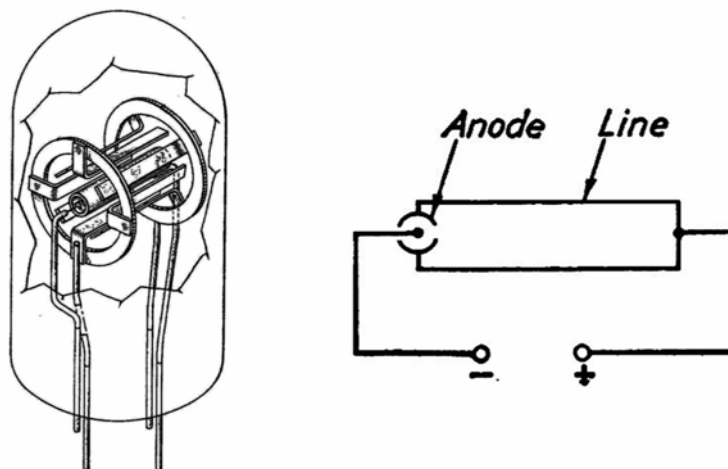


Click on the image to enlarge.

CV79, GEC developmental code E.1429, was used in the transmitter section of British Wireless Set No. 10, a microwave link capable of transmitting eight duplex telephone channels and introduced in 1944. [CV79](#) and its frequency variant [CV89](#) were interdigital type CW magnetrons, requiring part of the resonating line to extend from the base in the mount. It was later replaced by a pair of [CV228](#) Heil oscillator. A [CV90](#) was used as local oscillator in the receiver.

Indirect heated catode. 6.3 volt at 0.2 amps heater.

200 mW typical, 100 mW minimum output at 4547 MHz with 650 oersteds magnetic field.

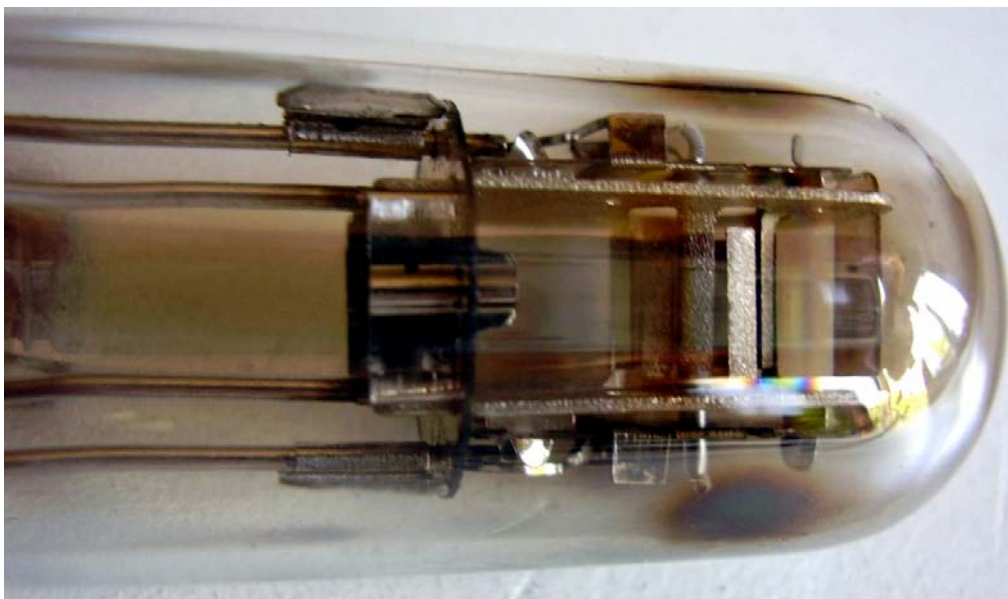


Mechanical draft of the internal electrode structure and equivalent circuit including the resonating line.

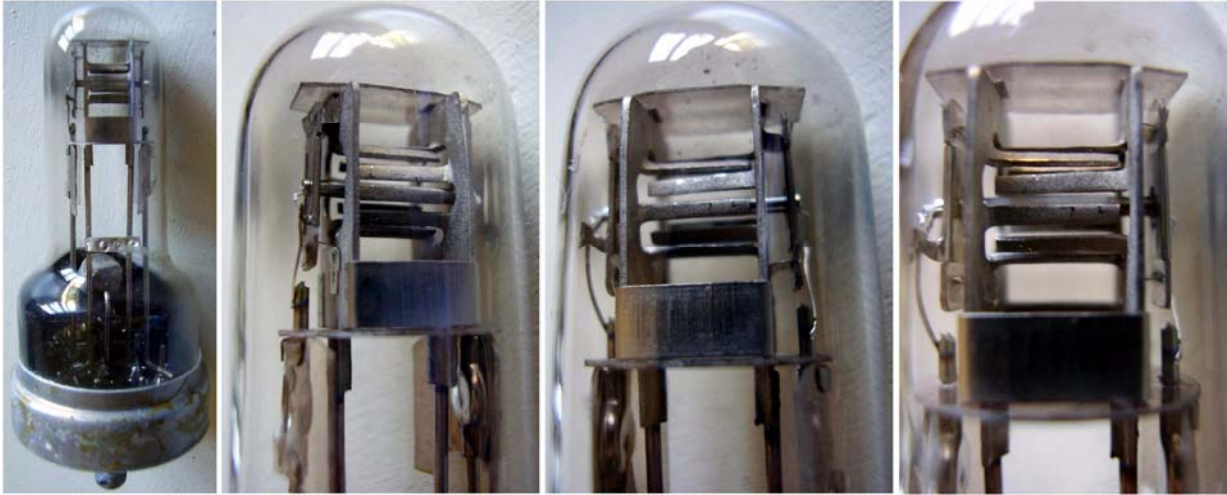


- Detailed views of the electrode structure. Click to enlarge.

The collection also includes an [eight-segment](#) and a [twelve-segment](#) GEC developmental prototypes, both with octal base.



In the next page some photos of a second sample of CV79 with clear glass envelope and slightly different construction. Internal details are well visible.



- In this sample the clear glass shows the internal interdigital anode structure. [Click to enlarge](#)

