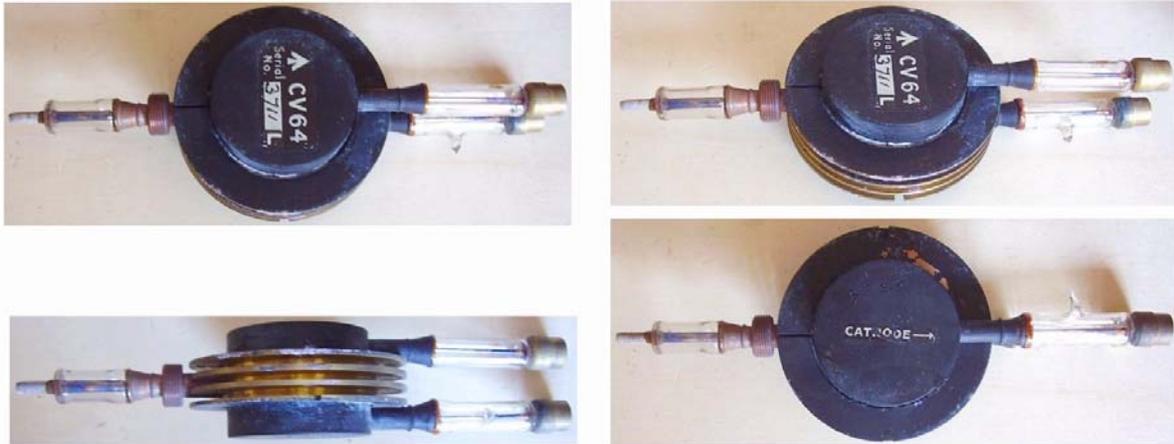


CV64 – S-Band Magnetron



Echelon strapped 8-segment magnetron for the AI sets operating at 3.3 GHz.

It was developed by L. Rushford and R. Latham at BTH, with the initial designation of BM717. Peak out power was about 40 kW, four times the power returned by CV38, with 13 kV, 10A pulses. The power was substantially limited by the modulator tubes. When the **CV85** trigatron became available, CV64 was operated at 160 kW input power. Similar devices were available shortly later from US manufacturers, such as the Western Electric **706** family.

Used in AI MkVIII and, from October 1942, in H2S.

[CV64](#) spec sheet.

More information on magnetrons can be found in the article 'Magnetron Tubes' edited by Emilio Ciardiello.