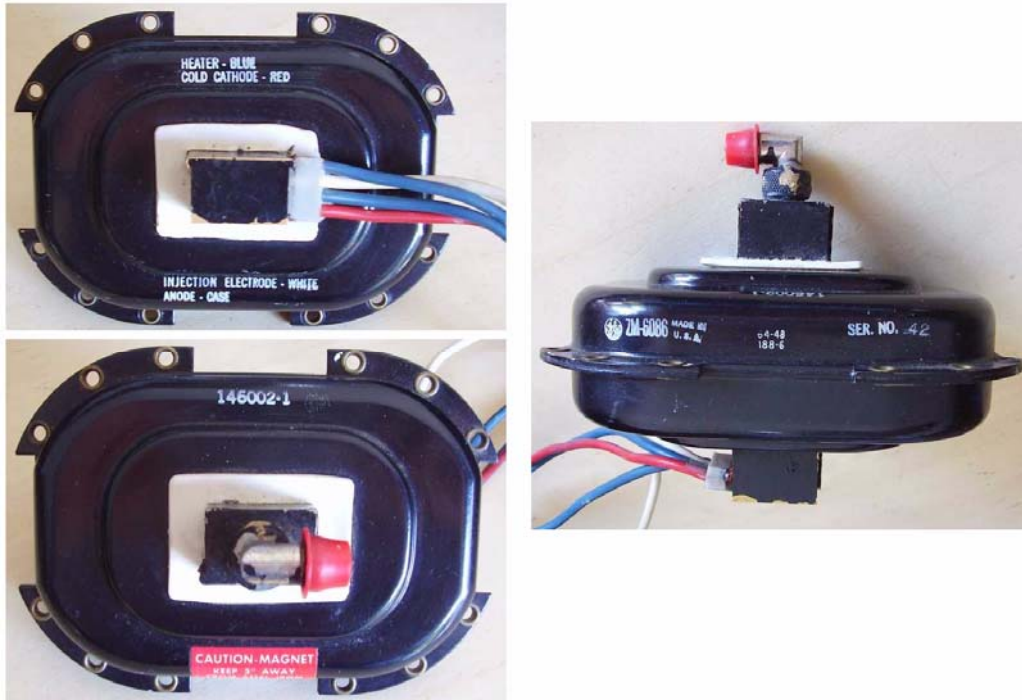


ZM6086 – Voltage Tunable Magnetron



The VTM, Voltage Tuned Magnetron, covers a wide frequency range. Its operation is quite different from that of resonant cavity types, where bunching is easily accomplished due to the high Q of the cavities. To have electron bunching, the VTM must operate with an electron current lower than the space-charge limited one: this is accomplished using a cold virtual cathode in addition to an injection system with a filamentary cathode.

CW magnetron (VTM), 1420 to 2607MHz, 0.036W minimum out, 1.66MHz/V tuning sensitivity. 2A at 2.5V heater.

More information on magnetrons can be found in the article [‘Magnetron Tubes’](#) edited by Emilio Ciardiello.