

CV208 – X-Band Pulse Magnetron



E1487, approved as CV208, was the first GEC X-band 12-segment double ring strapped magnetron. The collection includes the very rare early double stem release, left, and the single stem production release, the latter fully compatible with the BTH [CV209](#).

13 kV at 10A input, 25 kW typical output pulse power at 9375 MHz. Designed in 1943 at GEC as E1487 and approved as CV208, it was equivalent to the American WE 725A, even if with different shape of waveguide feeding and of cathode support. The collection includes a rare early sample with separate heater glass stems and another sample complete with mounting and waveguide transition.

CV208 was supplied fitted with a waveguide adapter and a single iron polepiece to be accommodated in the magnet of CV108. Available from the second half of 1943, it replaced CV108 in airborne radar sets from early 1944. Early units were characterized by separate glass stems for heater-cathode connections, as the sample at left in the above photo and the end of the next page. Later replaced by the single stem version, interchangeable with BTH [CV209](#).

[CV208](#) spec sheet.

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



Views of the CV208 magnetron, of the waveguide transition and of the complete assembly.



The collection also include a rare sample of the early production, with separate glass stems for heater and heater / cathode connections.