

5J33 – Continuous Wave Magnetron



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External magnet, single-ended CW magnetron. Neutrode 3-section anode structure, the central one being connected to the mid point, the voltage node, of the internal loop. The central anode block covers 180 degrees of the total anode circumference, each of the side blocks covering about 90 degrees. The electrical behavior of this tube approaches that of a multicavity magnetron. Operation is more stable at higher frequencies than in the two-anode types, provided that the load is balanced and hence the voltage node is not displaced from the mid-point of the internal loop.

750 to 1150 MHz; 200 W min CW out. 1500 gauss, 400 mA max at 1800 V, 40% efficiency. 2.2 V at 35 A filamentary cathode.

Intended to be used in radar jammers during WWII, this magnetron is described in [‘Very High Freq. Techniques’](#), McGraw-Hill. Data available in the [RMA 462](#) registration record. See also [‘Magnetron Tubes’](#) edited by Emilio Ciardiello.



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