

527A / PL-185 – Power Triode, Radar Oscillator or Modulator



Power triode used either as VHF oscillator or as radar pulse modulator. Thoriated tungsten filamentary cathode. 5.5 V at 135 A.

Four tubes in the ring oscillator of the SK-1M radar give 1 MW RF pulses at 210-225 MHz.

As pulse modulator, one single tube can switch 30 kV at 60 A. 100 A max emission.

PL-185 is the Penta Labs proprietary code for 527A.

Its use in hard-tube radar pulsers is described in 'Pulse Generators' by Glasoe and Lebacqz, volume 5, M.I.T. Radiation Laboratory Series.

Data for [527 Eimac](#).