

2K33 - Early K-Band Reflex Klystron



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Disc-seal mechanically tunable reflex klystron. K-band, integral cavity and tuner, waveguide flange. Octal base, cap to reflector.

24.0 GHz \pm 10%. 1.8 kV resonator voltage, -200 V reflector. 20 mW out.

6.3 V at 650 mA heater.

Developed at the Clarendon Laboratory, Oxford, England, further developed and produced by Raytheon during WWII. This sample is from the early production. It was followed by improved versions [2K33A](#) and later by [2K33B](#), with increased output power.

In 'Klystrons and Microwave Triodes' by Hamilton, Knipp and Kuper the teoretical band goes from 23 to 25GHz. Some data of 2K33 and its pinout are given in the RMA record [478](#), registered to Raytheon only in March 1946. During the war this device was classified.