

707B – S-Band Reflex Klystron



External cavity reflex klystron, intended for use as local oscillator in radar receivers operating around 3 GHz. The [707A](#) was the early reflex klystron developed by Western Electric capable of operation at considerably low voltage, around 300 volts. This result was achieved using fine grids in the interaction gap, resulting in a shorter effective transit angle across the gap itself. The 707A was rated for 25 milliwatts minimum output power over the range from 2500 to 3700 megacycles, in a $3\frac{3}{4}$ mode. Grids became bright-yellow at full power.

6.3 V at 650 mA heater.

The 707B was updated to 30 milliwatts minimum out power over the above frequency range. Similar to [2K28](#). Western Electric and Raytheon, as RK-707B.

The collection includes associated cavities, as the one in the photo above described in 'Principles of Radar', M.I.T. Radar School Staff.