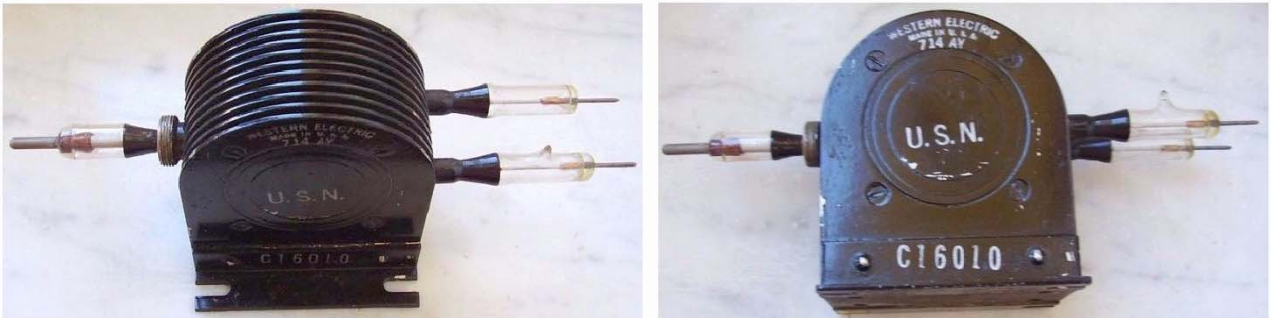


714AY – S-Band Pulse Magnetron



The 714A was a pulse magnetron, external magnet, coaxial out. It was a frequency variant of the [706A](#), oscillating at 3300 MHz and having smaller resonating holes. The typical output power was around of 22 kw, with 11 kv at 12.5 amps input pulses.

The strapped version, 714AY could be operated with input pulses up to 20.9 kv at 20 amps, giving over than 200 kW in output, with about 55% efficiency. Derated operation at 2000 pps was possible, giving about 40 kW in output.

Used in some of the earliest 3 cm American ship and airborne radar systems.

More information on magnetrons can be found in the article [‘Magnetron Tubes’](#) edited by Emilio Ciardiello.