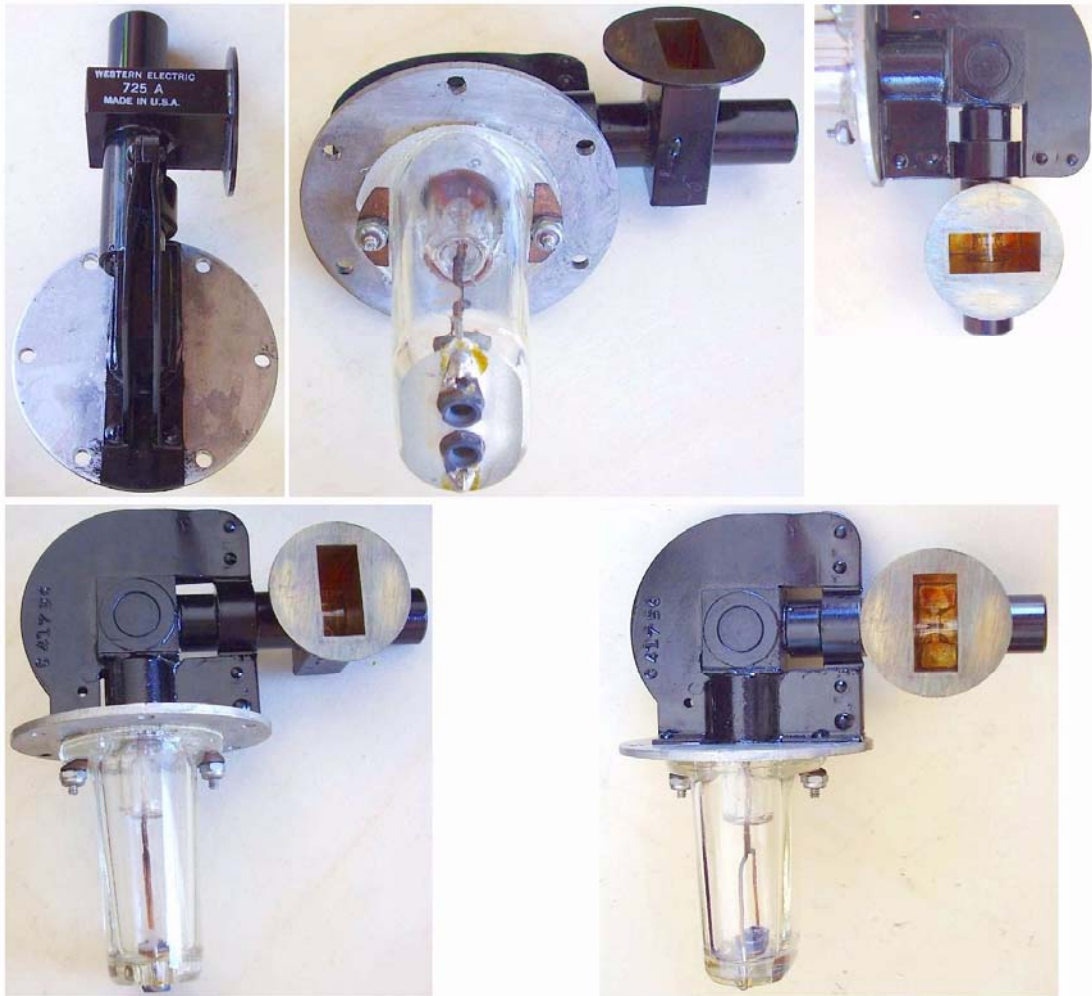


725A – X-Band Pulse Magnetron



X-band fixed frequency unstrapped magnetron capable of delivering 56 kw peak pulses at 9375MHz. 13 kv at 12 amps input pulses, with 51% efficiency. Flanged waveguide parallel to the cathode axis.

One of the first X-band magnetron produced in large quantities since WWII. 725A was developed at Bell Telephone as replacement for the quite unstable early types, [2J21](#) and [2J21A](#). It was manufactured among the others by WE and Raytheon. Two steel disks were included in the end covers and the anode length was kept low, in order to operate with relatively small permanent magnets. Production started in the late 1942. Production exceeded 250,000 units. 89,480 units were supplied to British Empire under the Lend-Lease law. In the fifties this magnetron was sold on the surplus market for as low as 2,50 dollars.

Widely used in several aircraft radar equipment, such as in the later productions of AN/APS-3 as replacement for 2J21, in AN/APS-4 and in AN/APS-15.



Photos of a 725A mounted in the polepieces of a 14 lbs. permanent magnet